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FIG. 1A

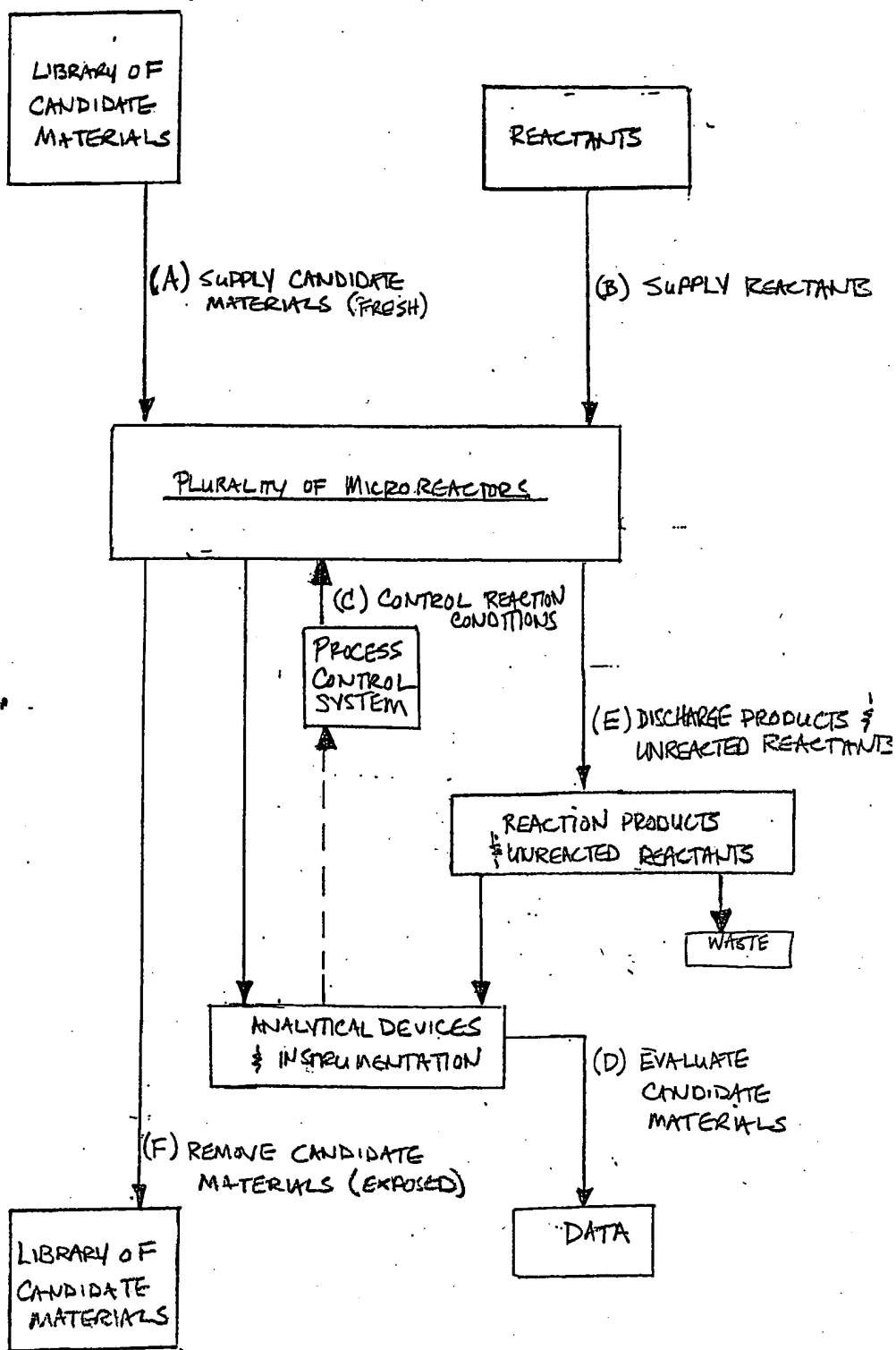


Fig. 1B

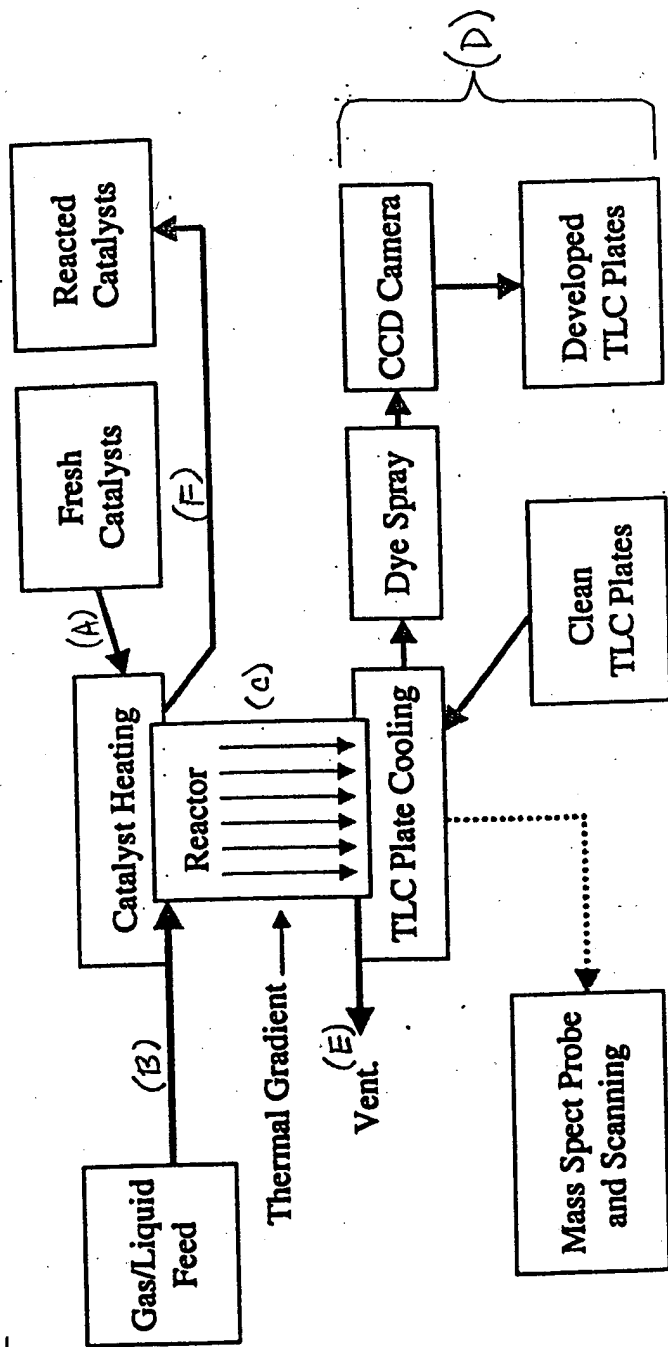
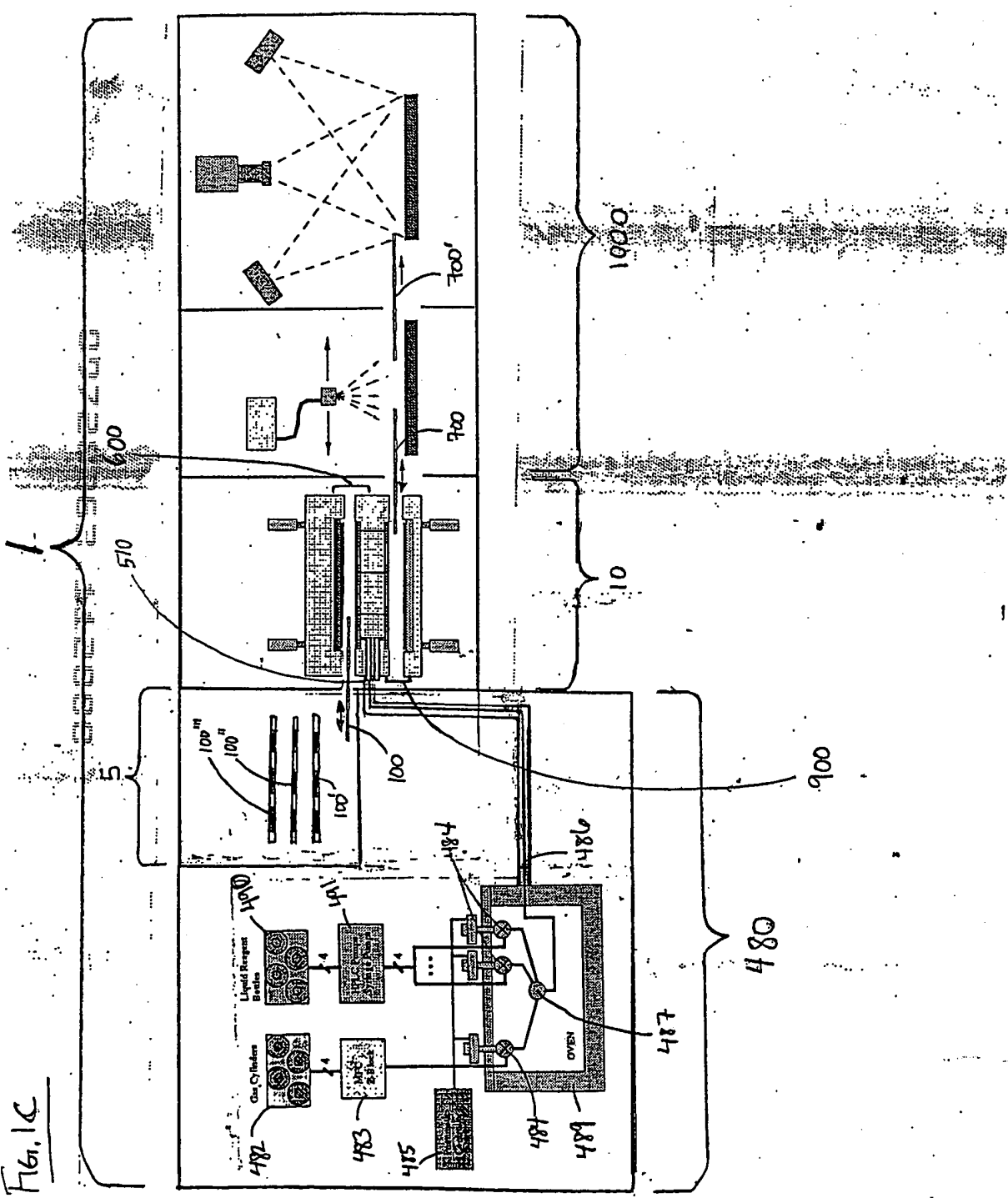


FIG. 1C



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FIG. 2

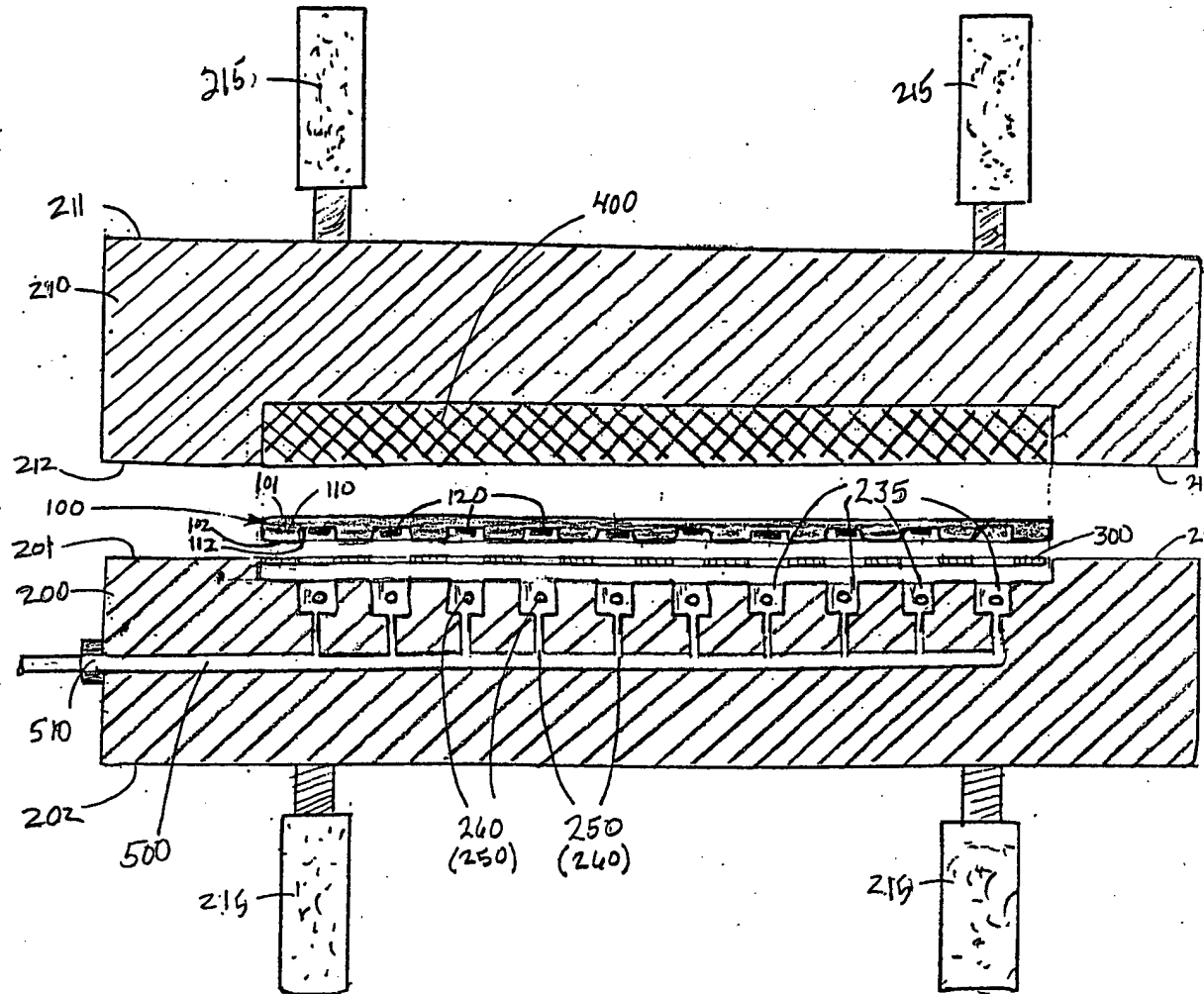


FIG. 3A



FIG. 3C



FIG. 3D

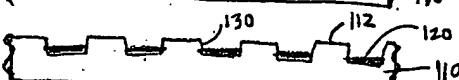


FIG. 3E



FIG. 3F

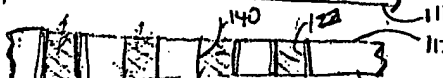


FIG. 3G

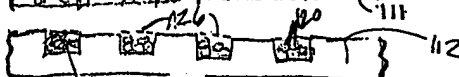


FIG. 3H

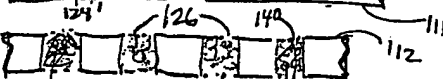
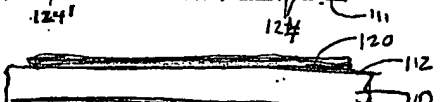


FIG. 3B



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Fig. 4A

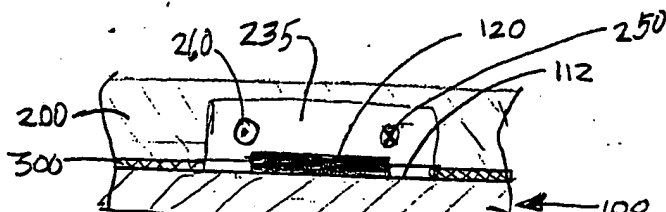


Fig. 4B

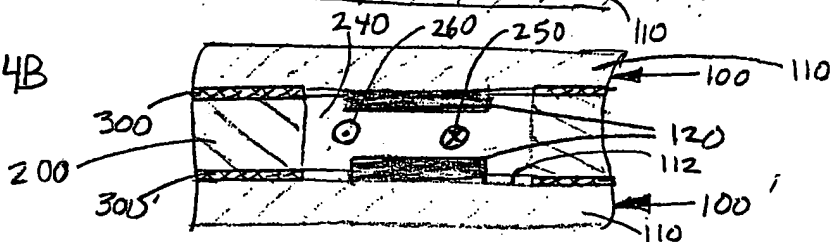


Fig. 4E

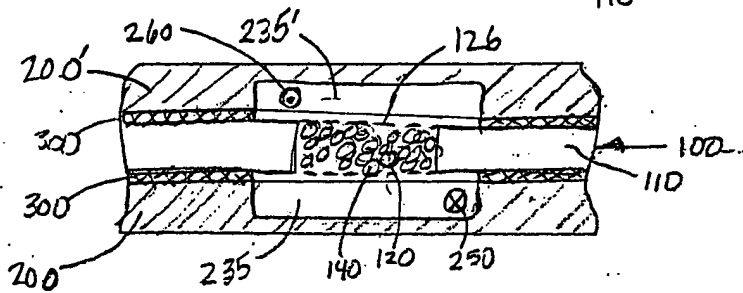


Fig. 4D

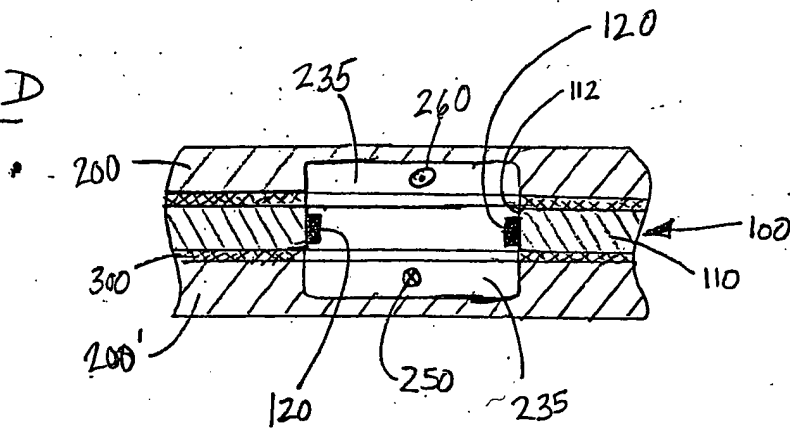


Fig. 4C

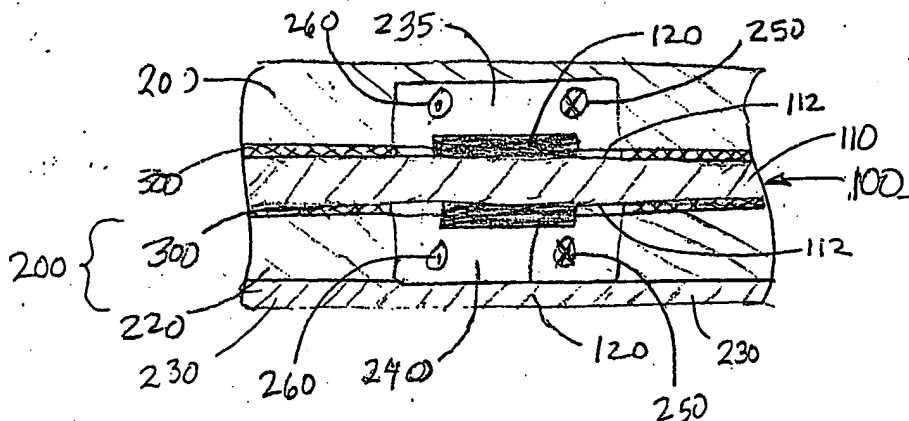
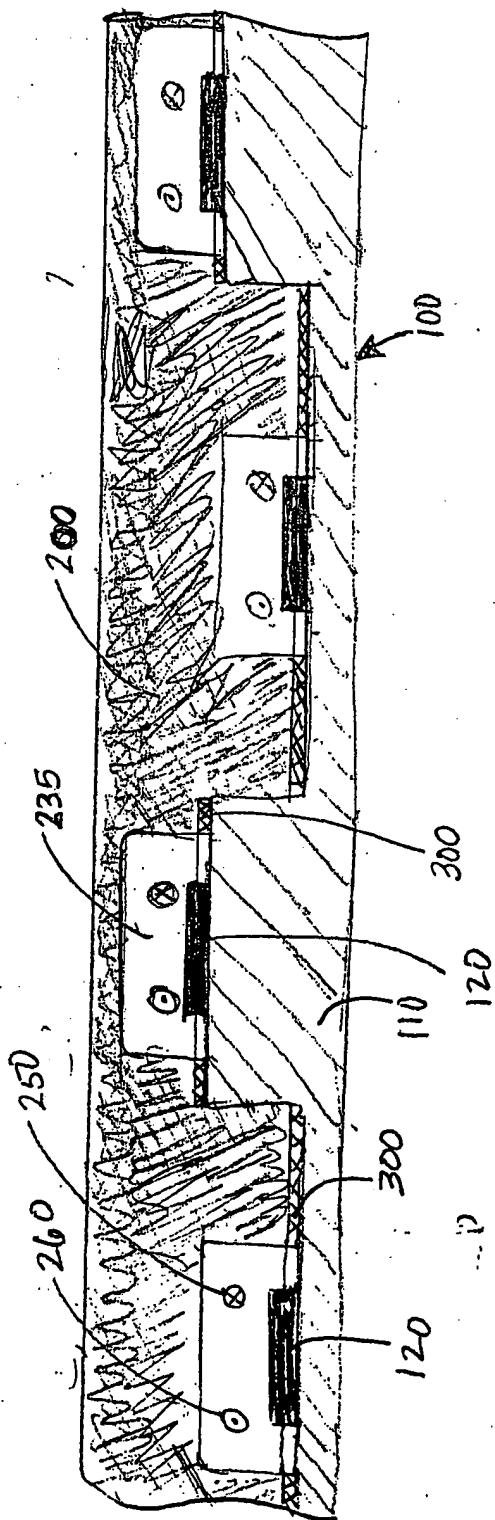


Fig. 5



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Fig. 6A

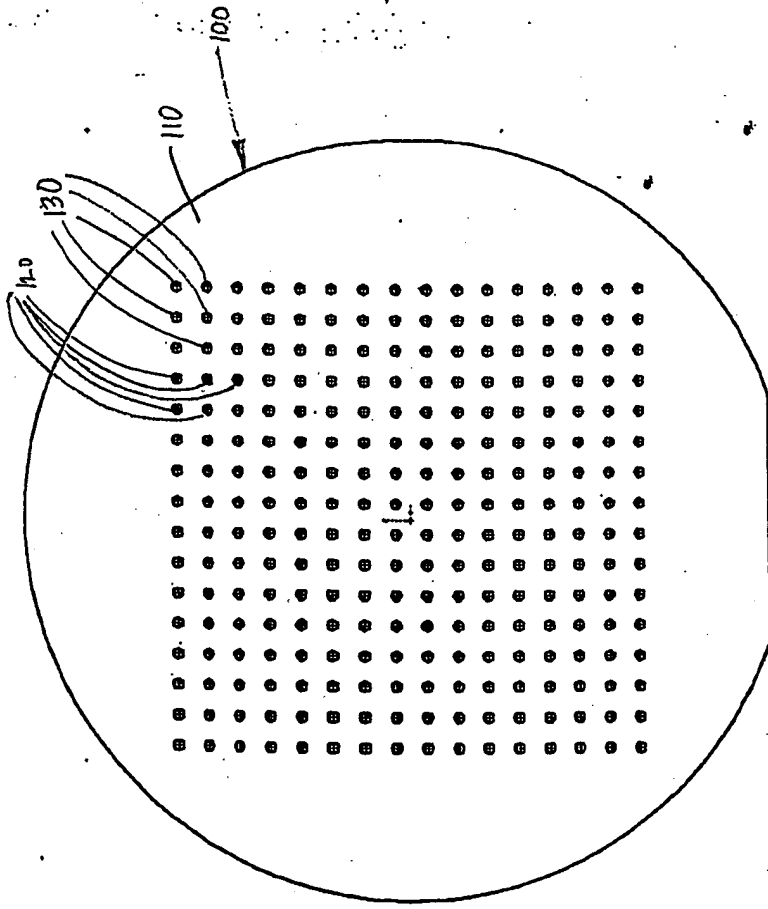
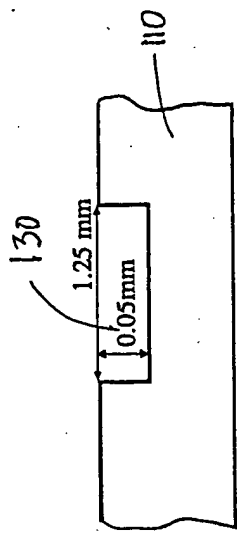
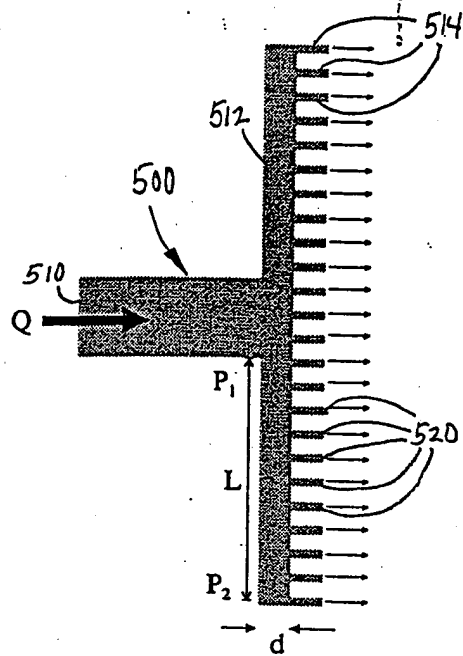


Fig. 6B



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Fig. 7A



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Fig. 7B

2^n (520)
 2^{n-1} (515, 516, 517) channel sections
 (514) w/ (515, 516, 517)

4 microreactors
 $n=2$

so 3 channel sections

2^{n-1} (518)

4 micro
 $n=2$
 3 binary junctions

$2^{n-1} - 2$
 4 micro
 $n=2$

0

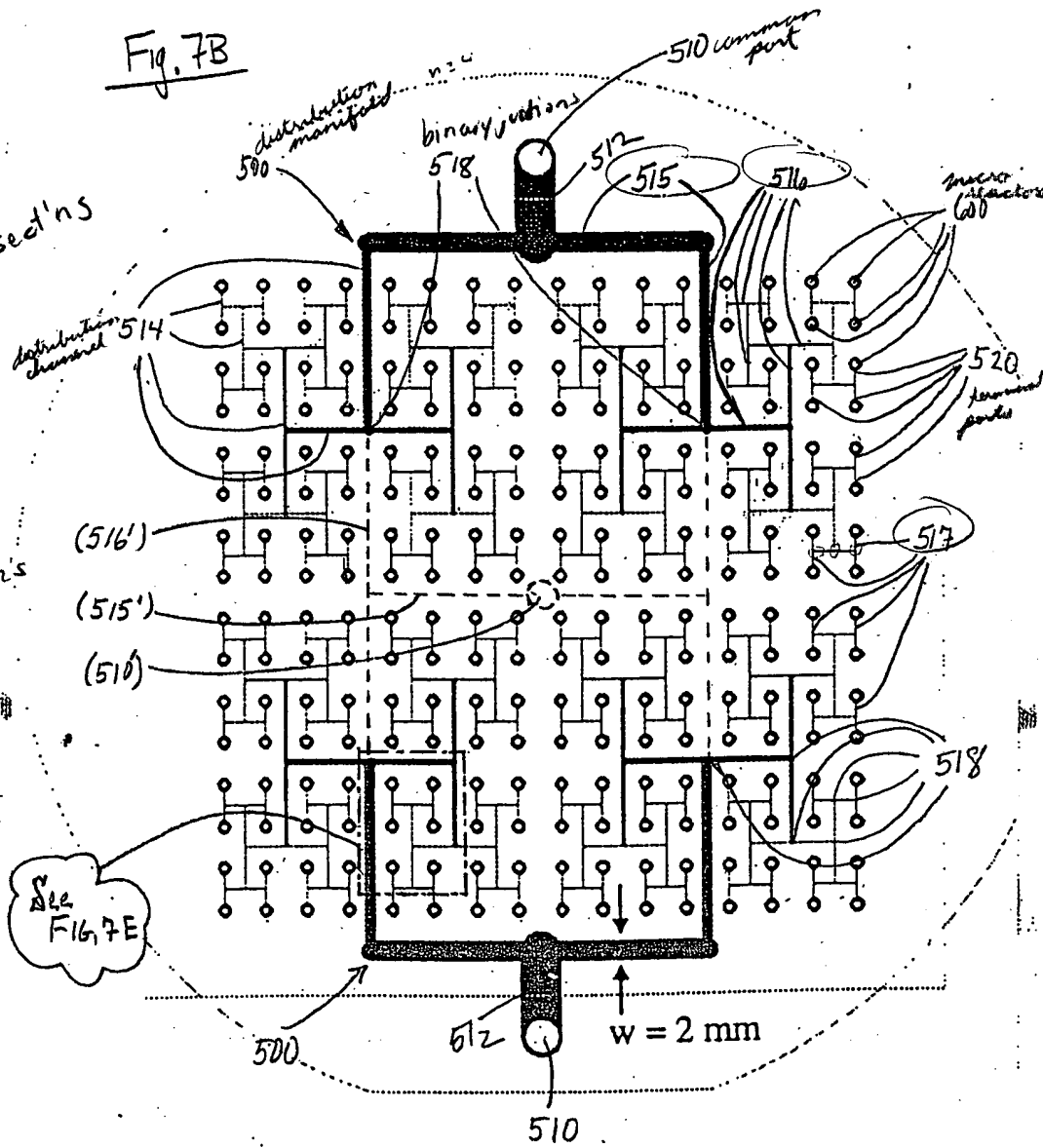
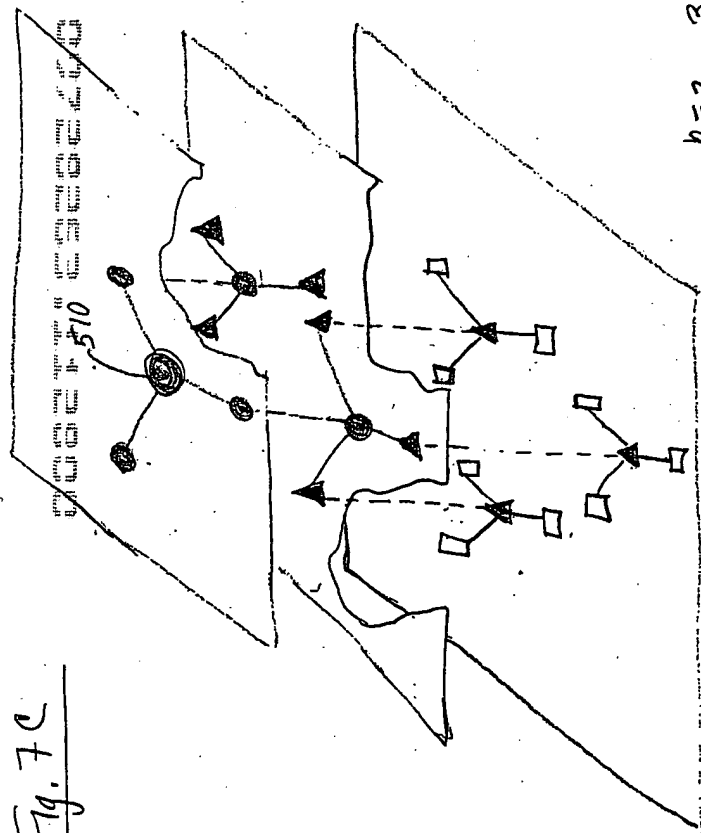


Fig. 7C

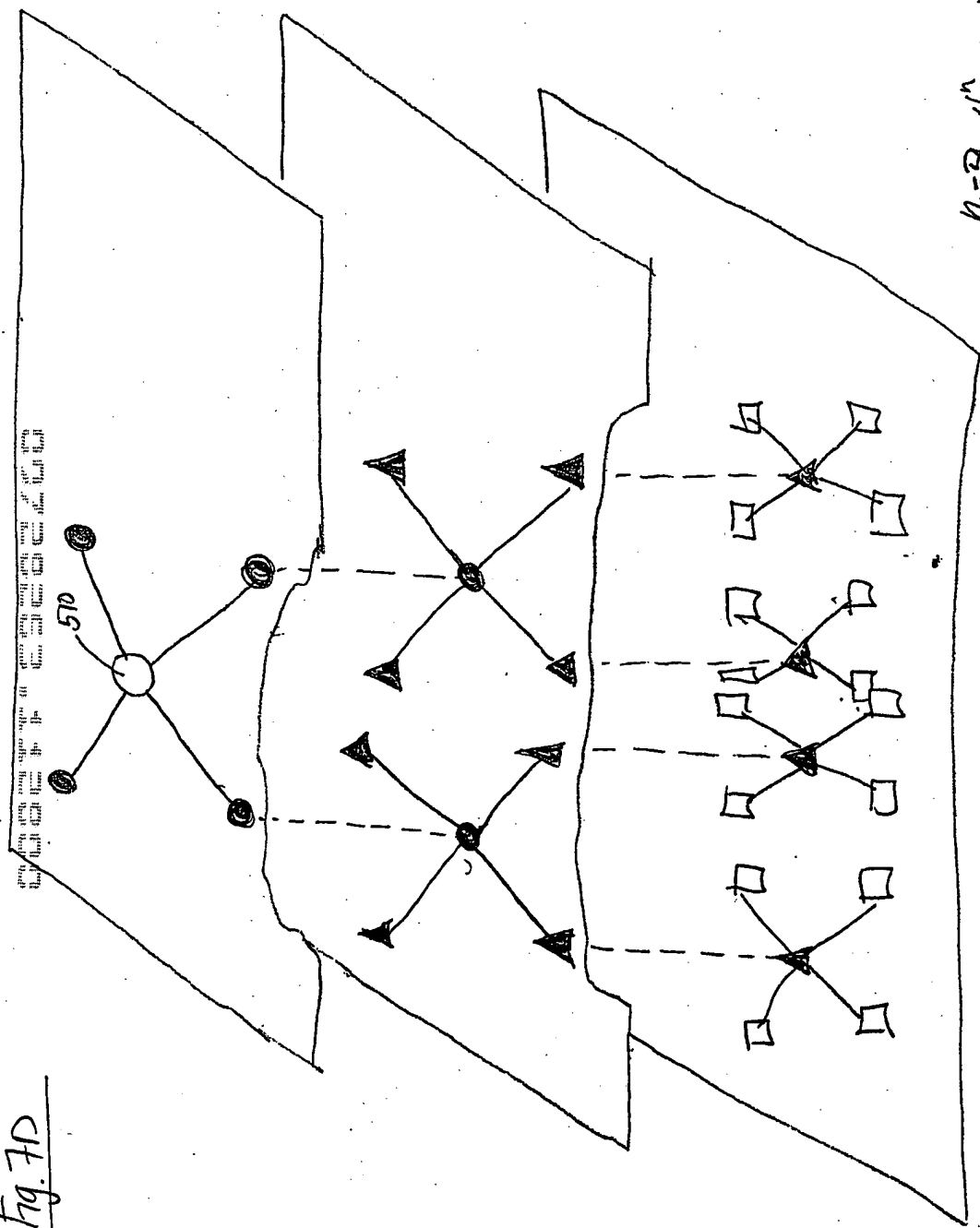


$$n=3, 13^{\wedge}=27$$

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Fig. 7D

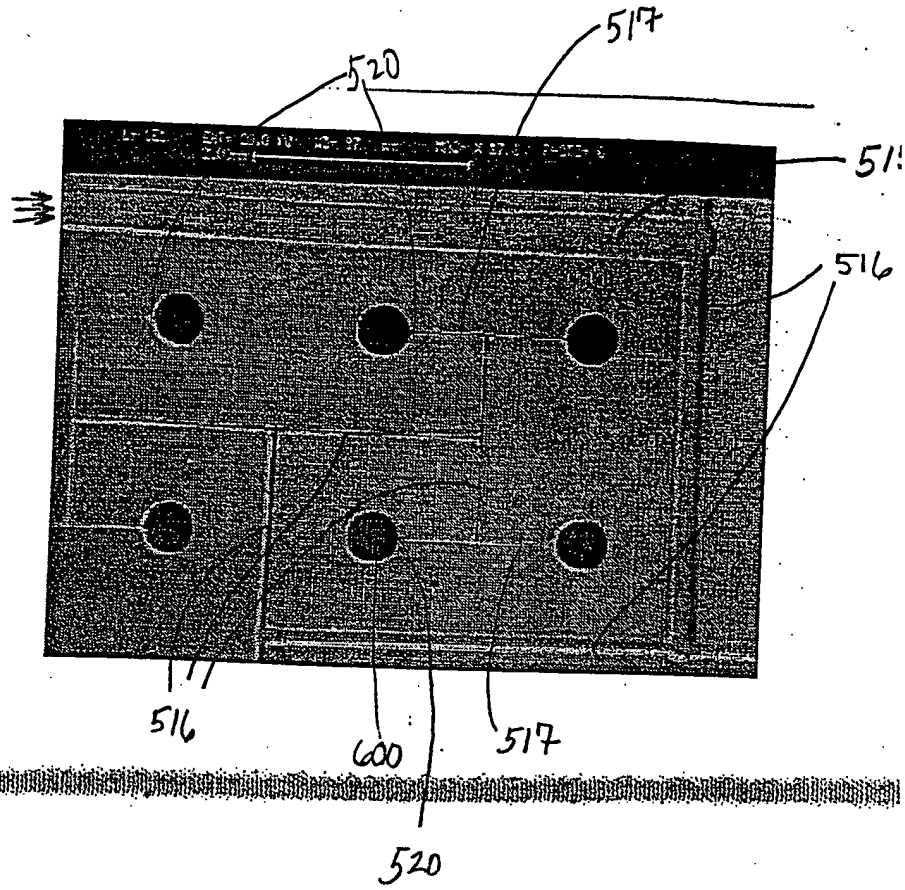
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$$n=3, 4^n=64$$

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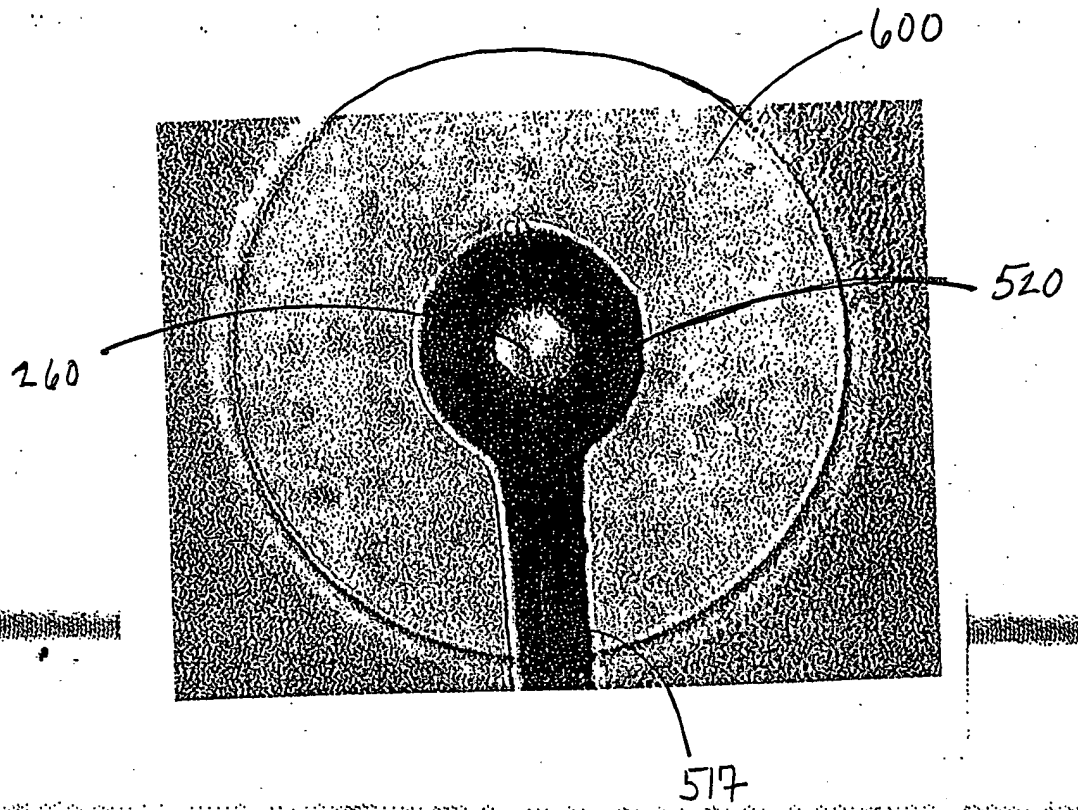
Fig 7E



(red line drawing)

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FIG. 7F



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Fig. 7G.

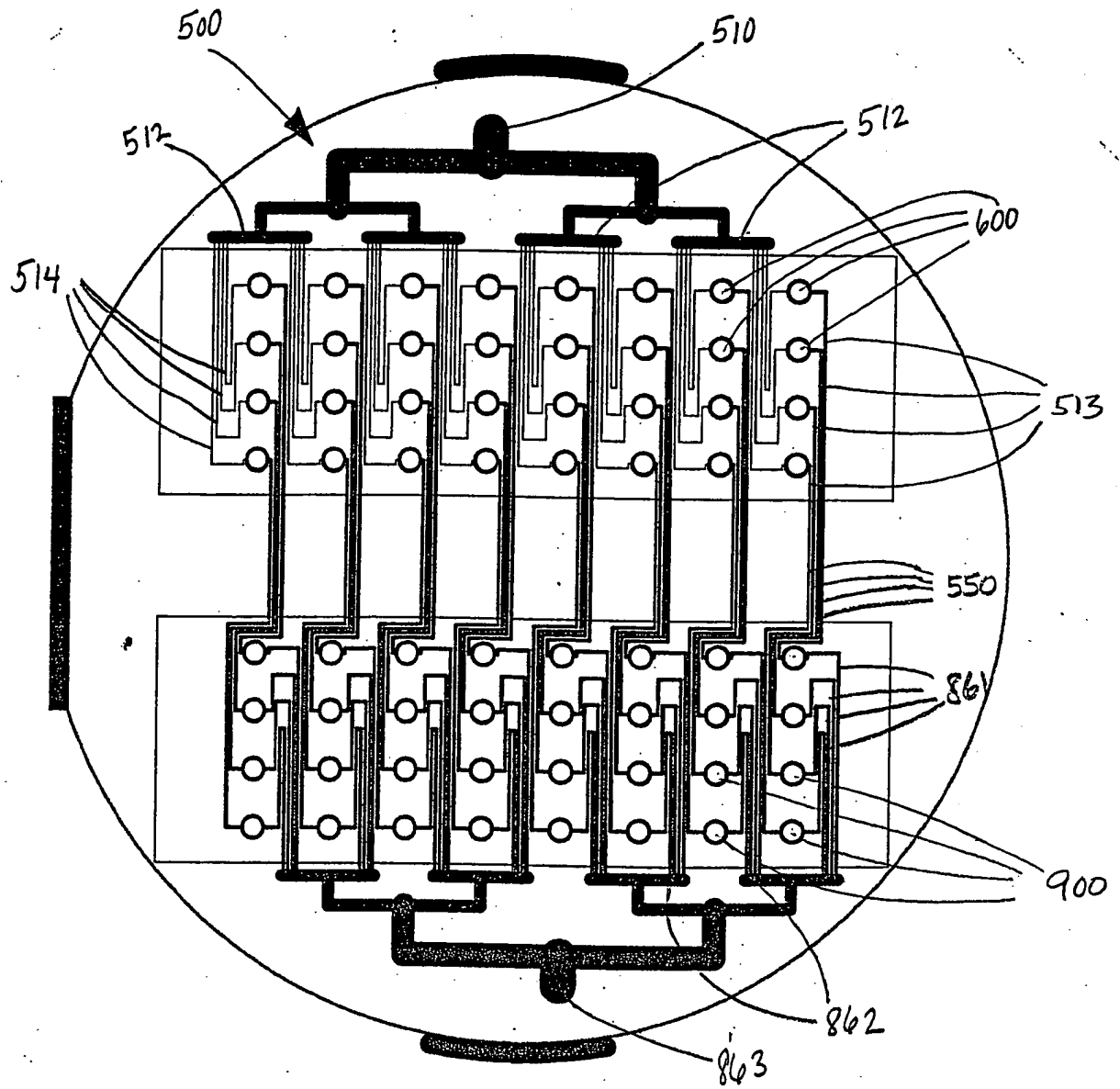
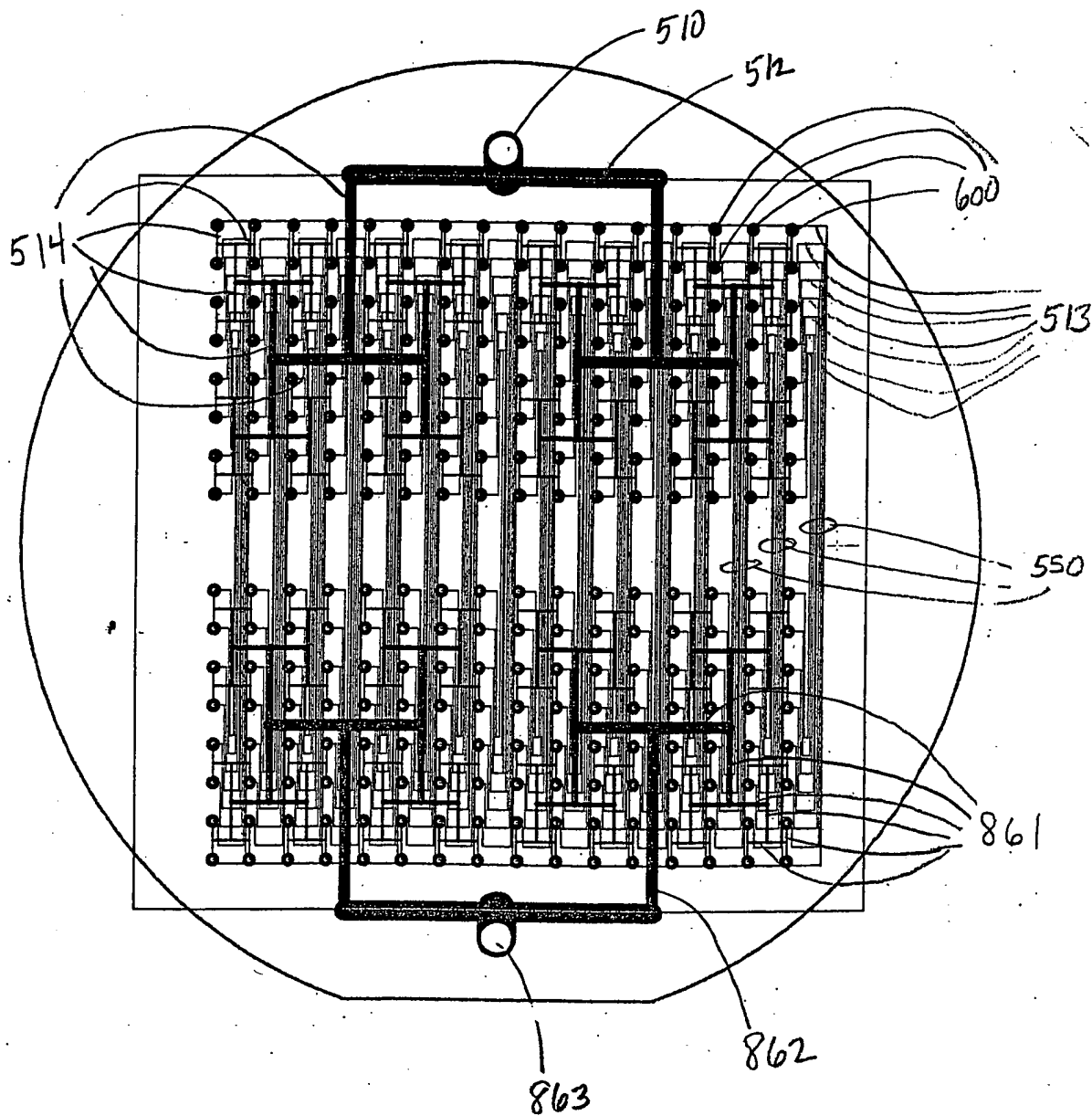


Fig. 7H



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FIG. 7I

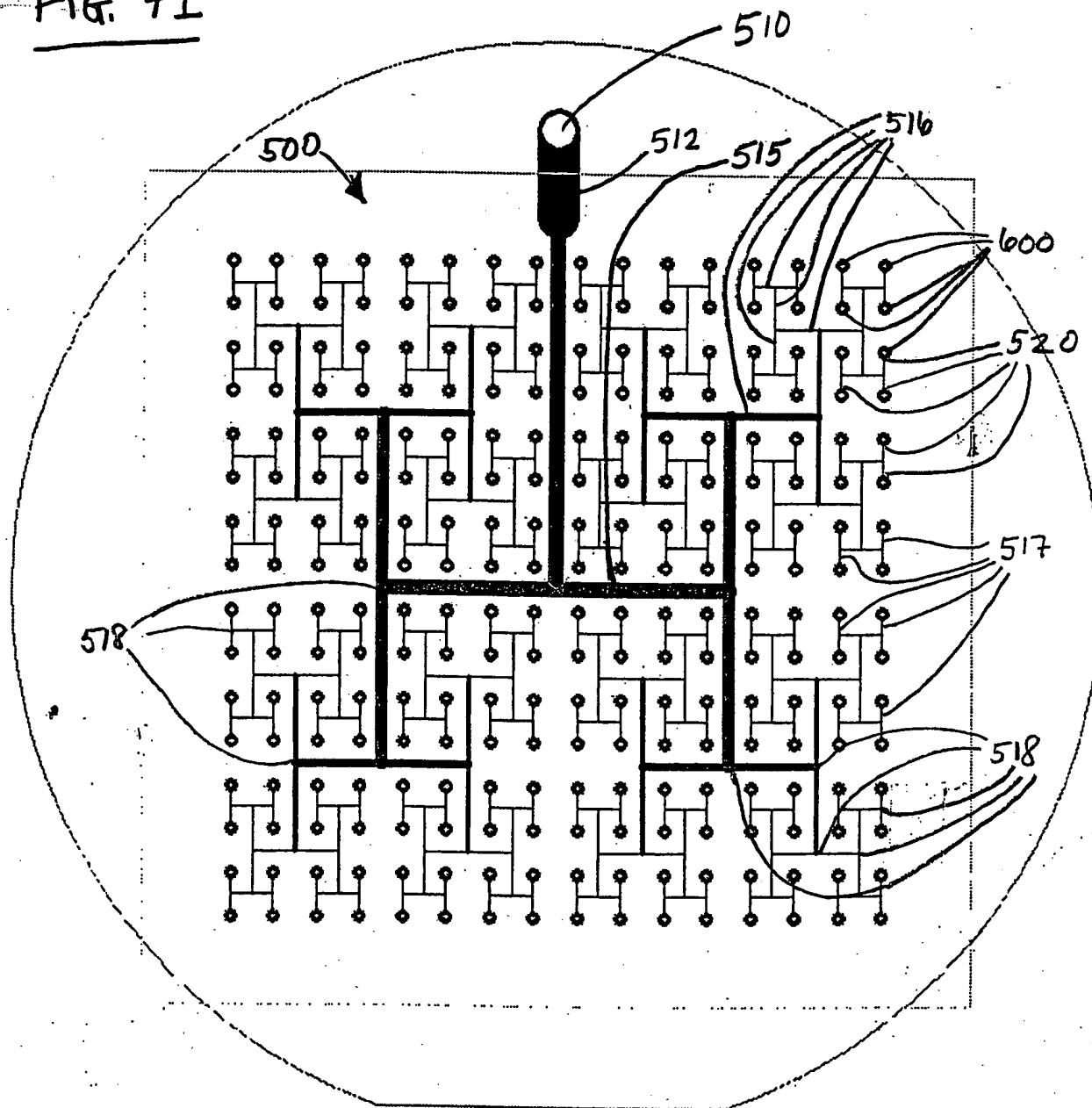
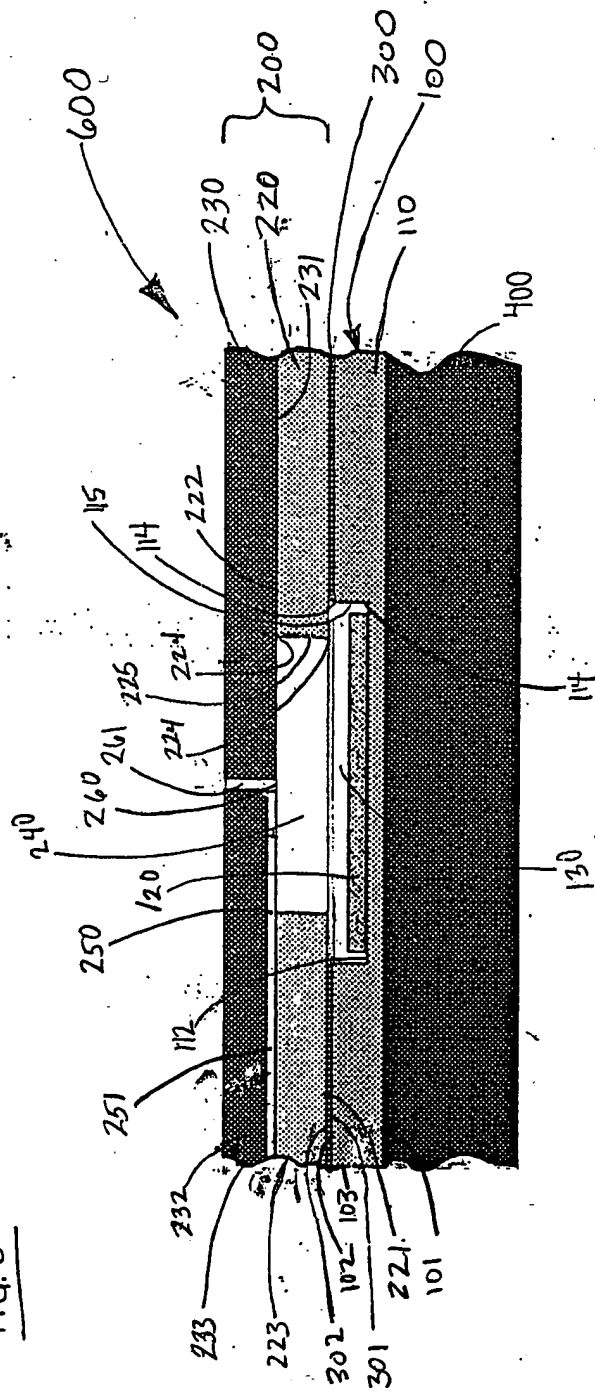


FIG. 7I is a schematic diagram of a circuit board layout showing a grid of components and various labeled regions and components.

Fig. 8

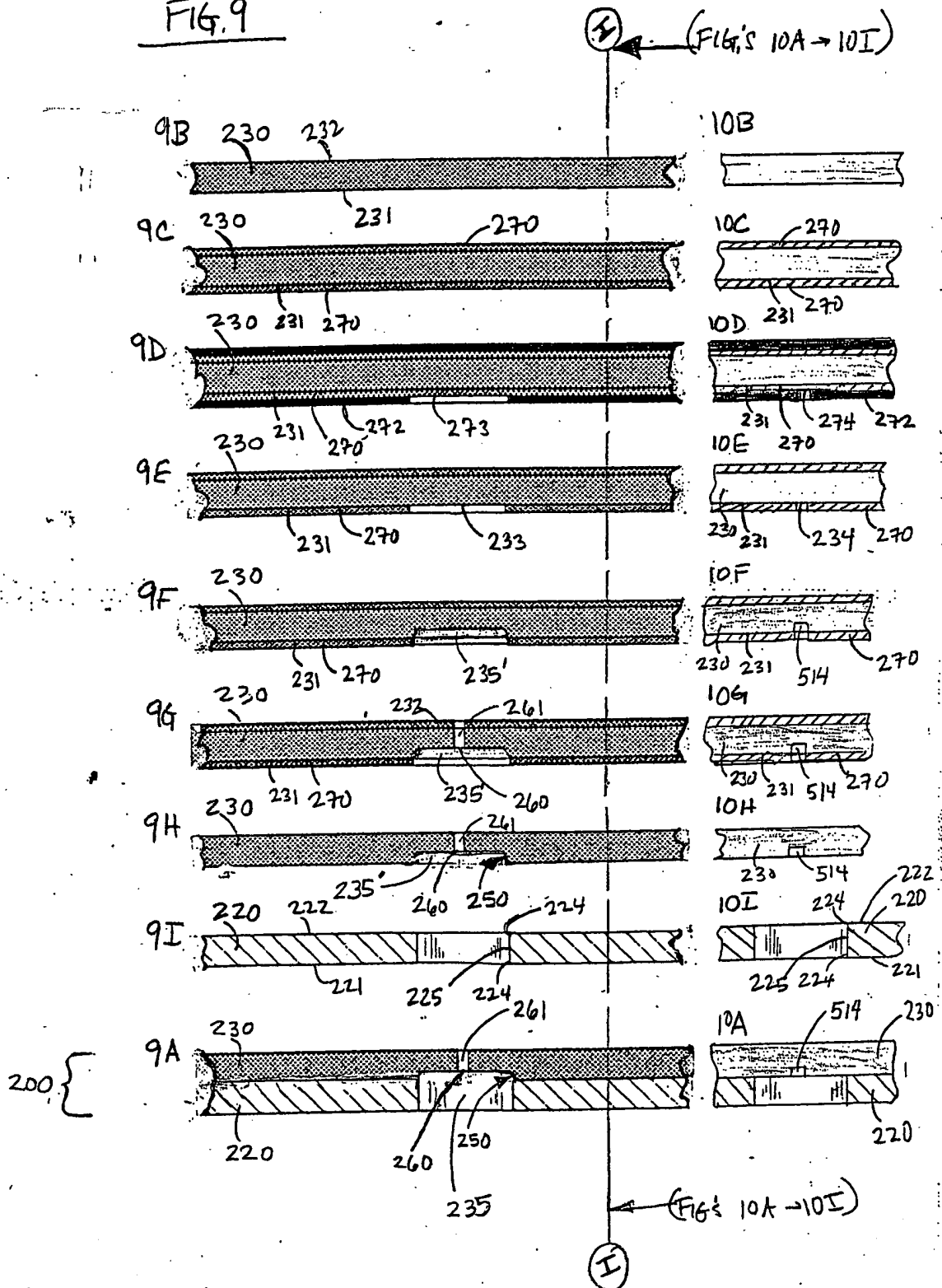


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FIG. 9

FIG. 10



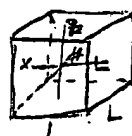
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FIG. 11A



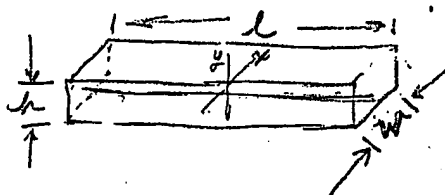
$$x:y:z \equiv 1$$

FIG. 11B



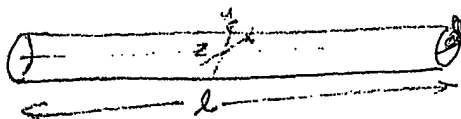
$$x:y:z \equiv 1$$

FIG. 11C



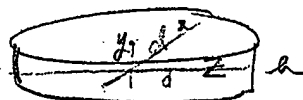
$$\begin{aligned} x:z &= w/e \\ y:z &= h/w \end{aligned}$$

FIG. 11D



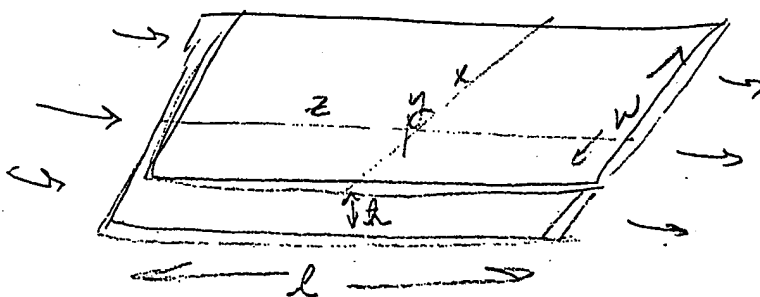
$$\begin{aligned} x:z &= \frac{d}{2} \\ y:z &= \frac{d}{2} \end{aligned}$$

FIG. 11E



$$\begin{aligned} x:z &= \frac{d}{a} \equiv 1 \\ y:z &= h/a \end{aligned}$$

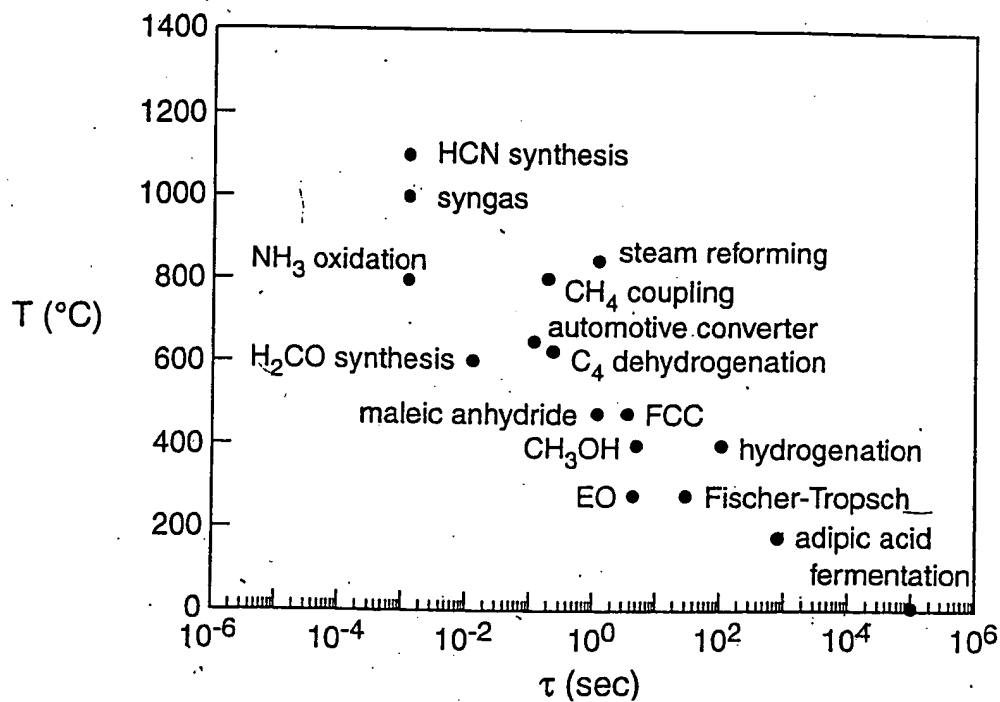
FIG. 11F



$$\begin{aligned} x:z &= \frac{w}{2} \\ y:z &= \frac{h}{2} \end{aligned}$$

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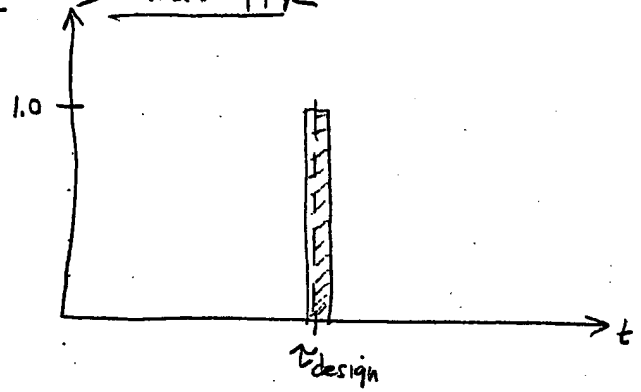
Fig. 12



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FIG. 13A. : Idealized PFR

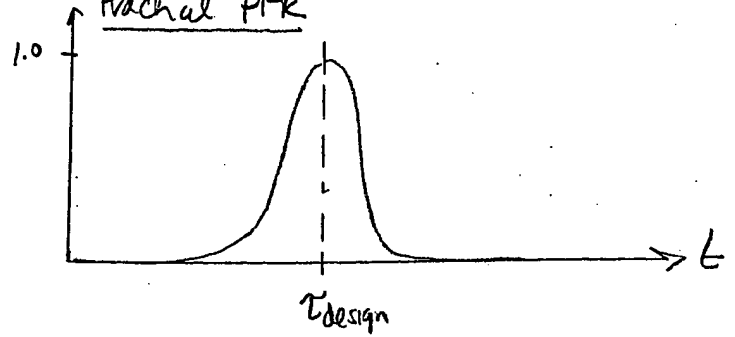
$P \equiv$ probability function



$\tau \equiv$ residence time

FIG. 13B

Batch PFR



τ

FIG. 13C

CSTR

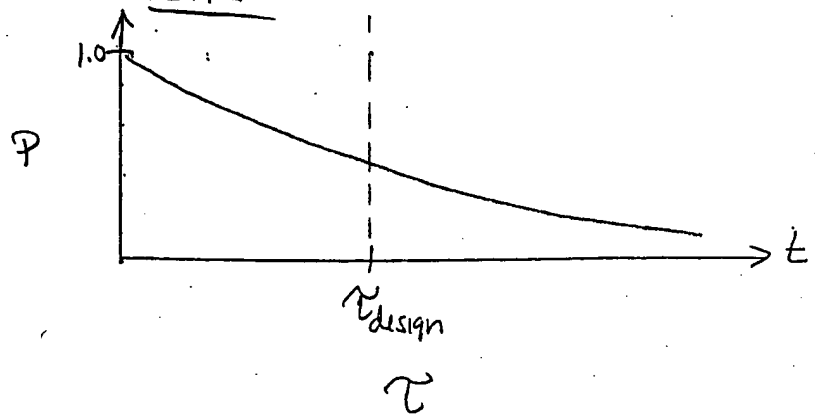


Fig 15:

Fig. 15A

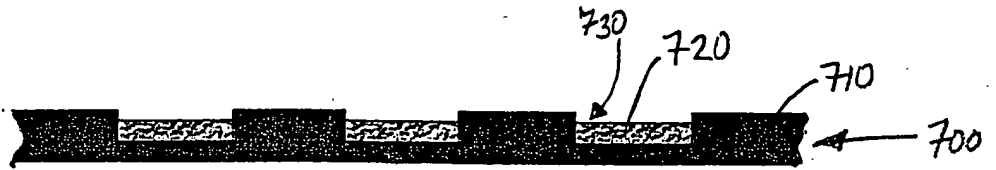


Fig. 15B

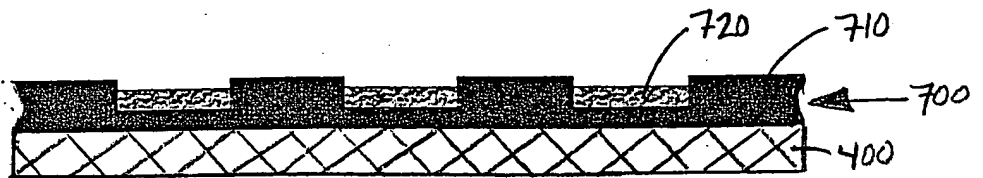
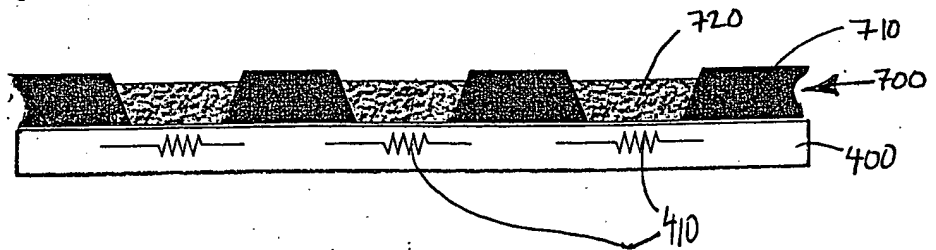


Fig 15C



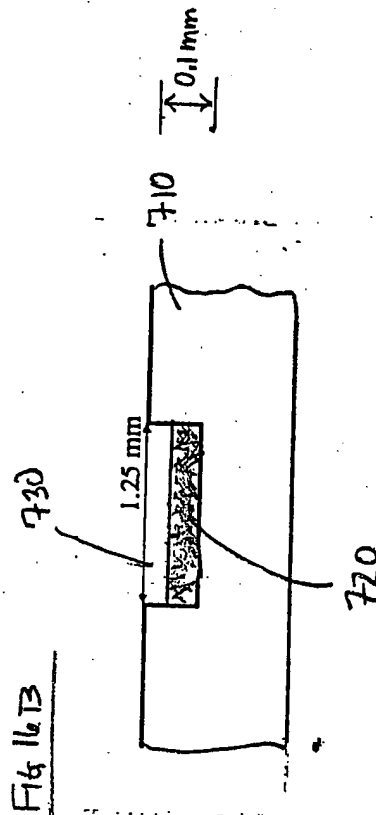
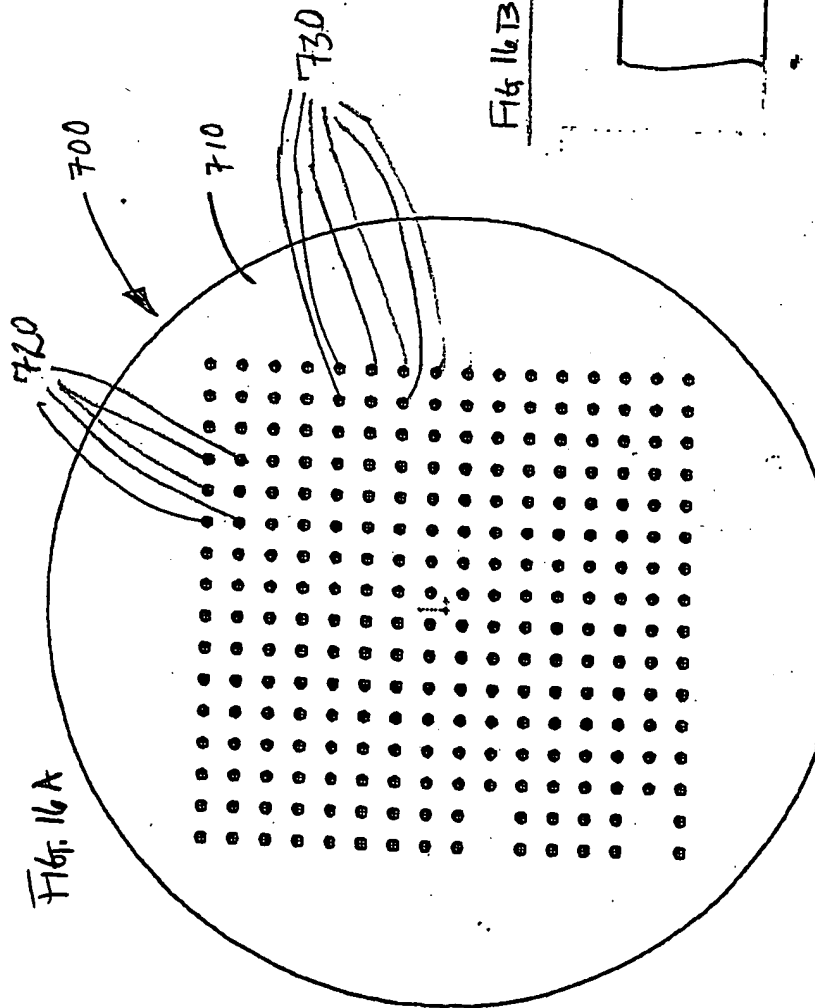


FIG. 16

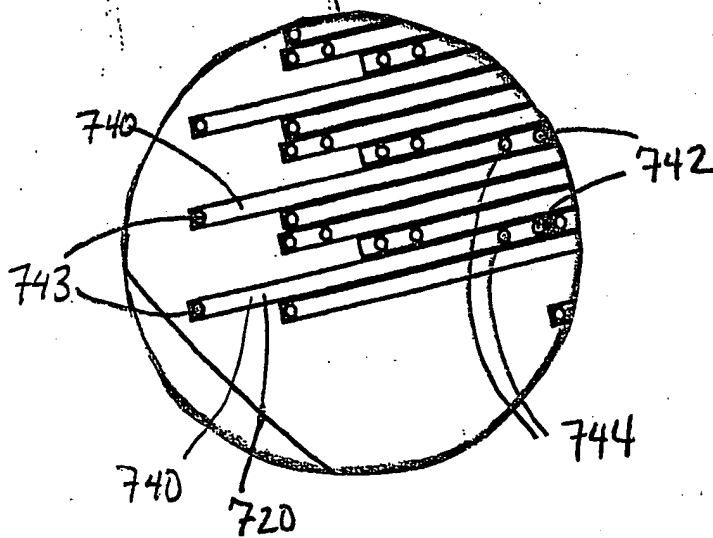
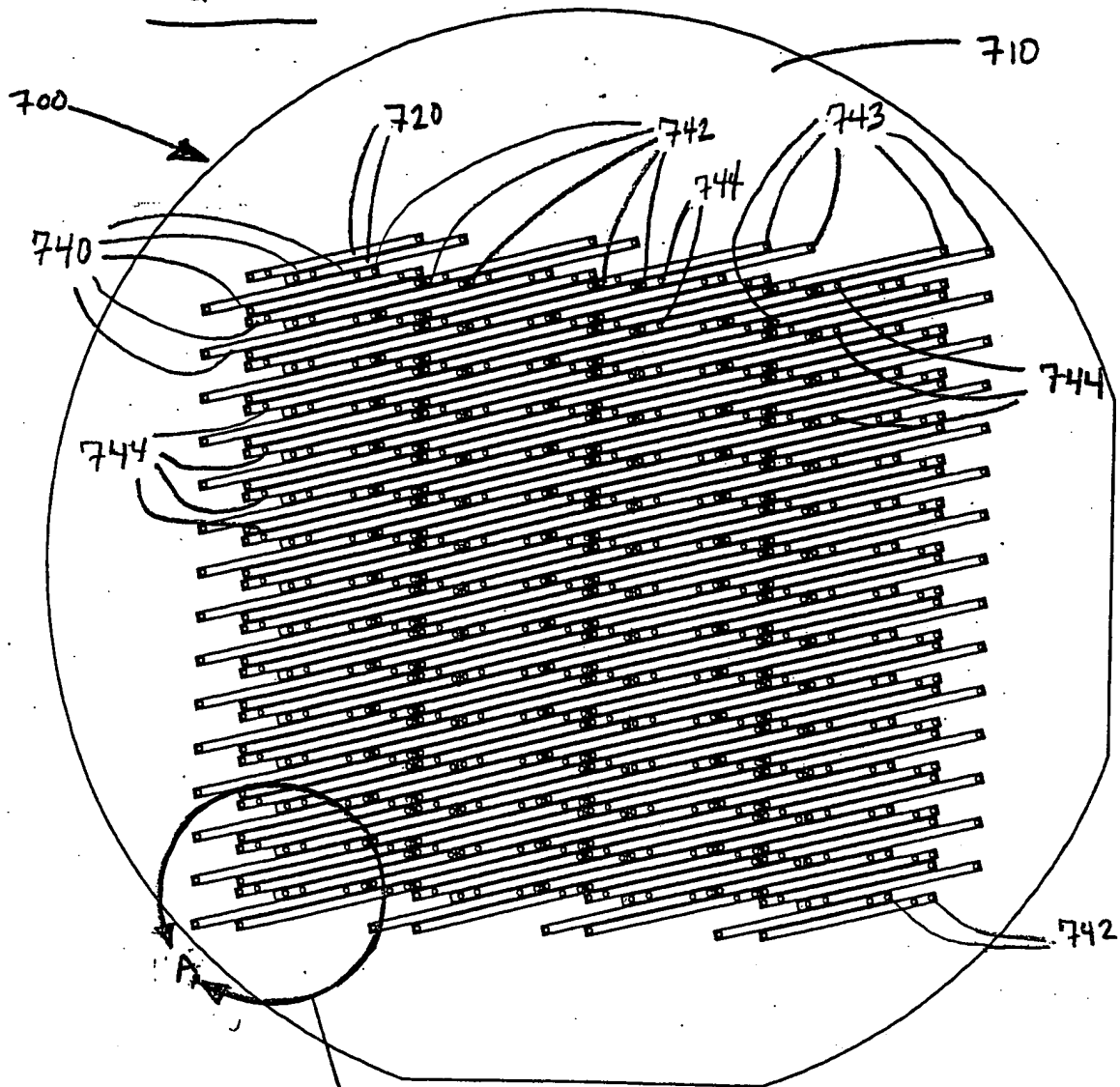


FIG. 16D

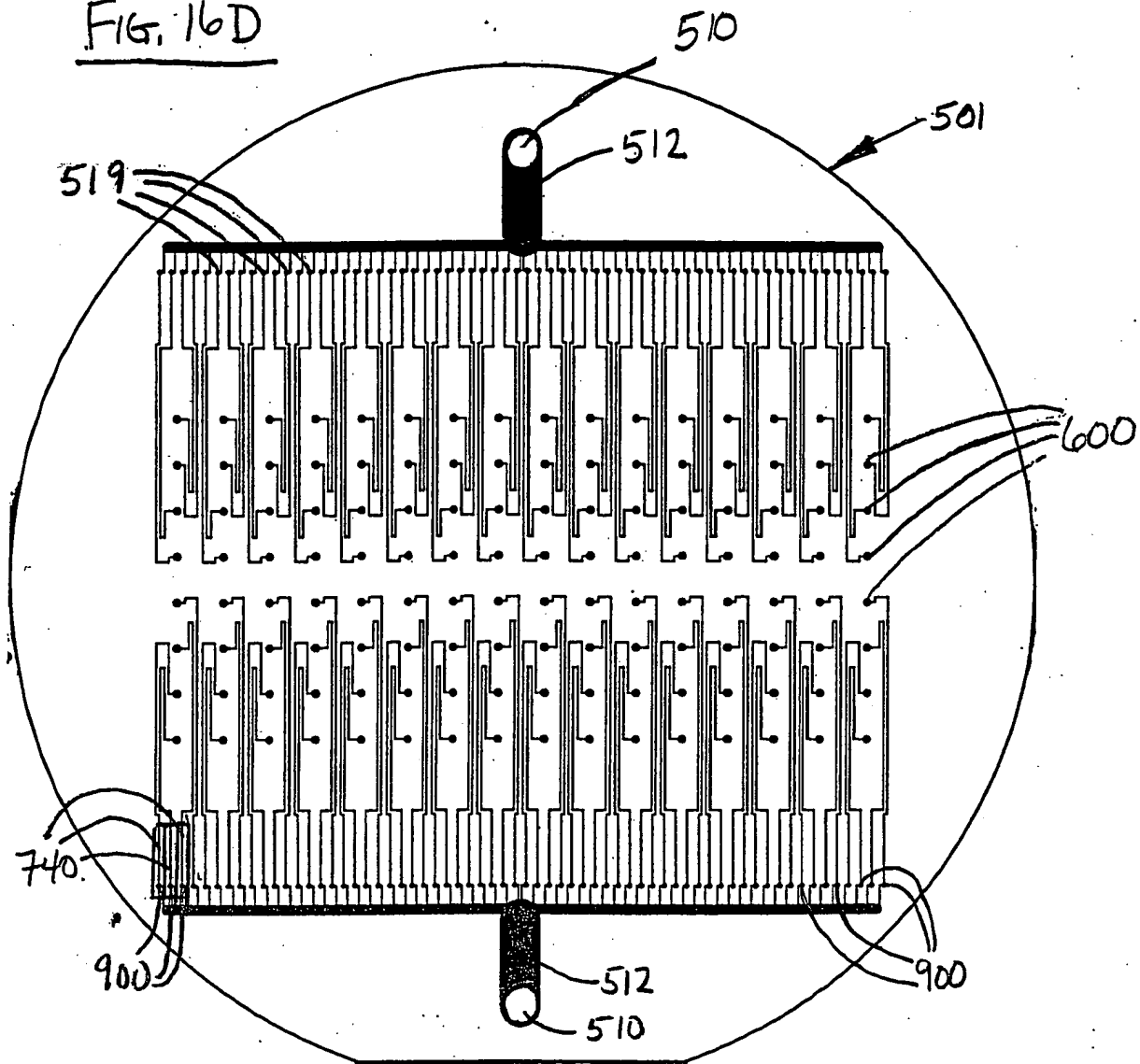
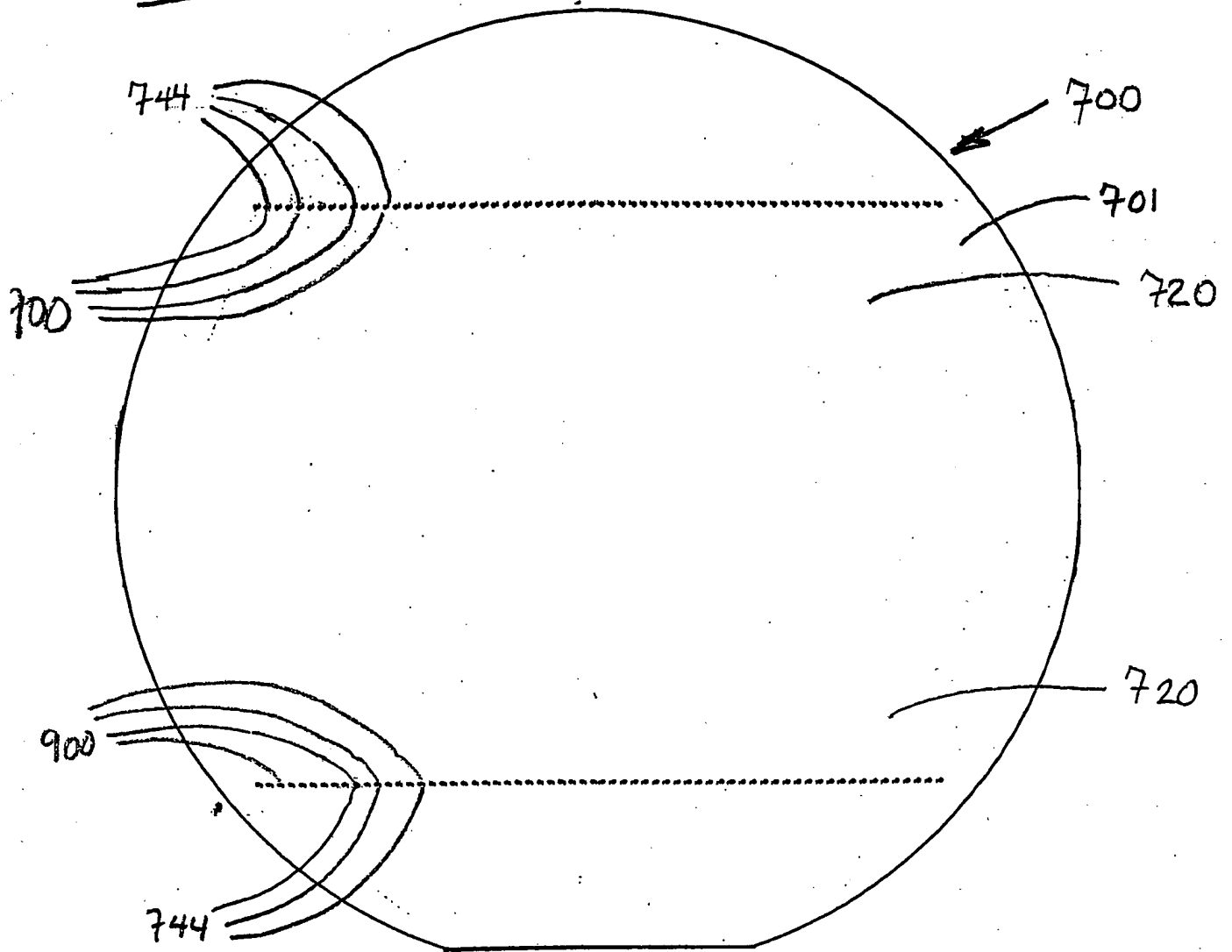


FIG. 16E



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FIG. 17A

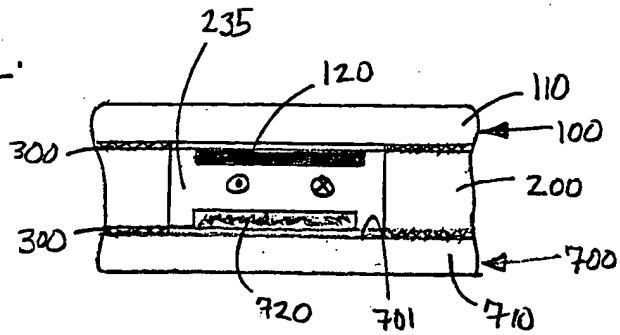


FIG. 17B

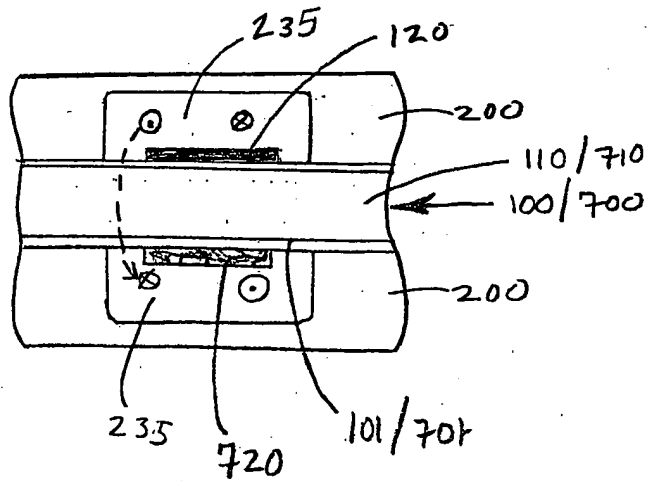


Fig. 18A

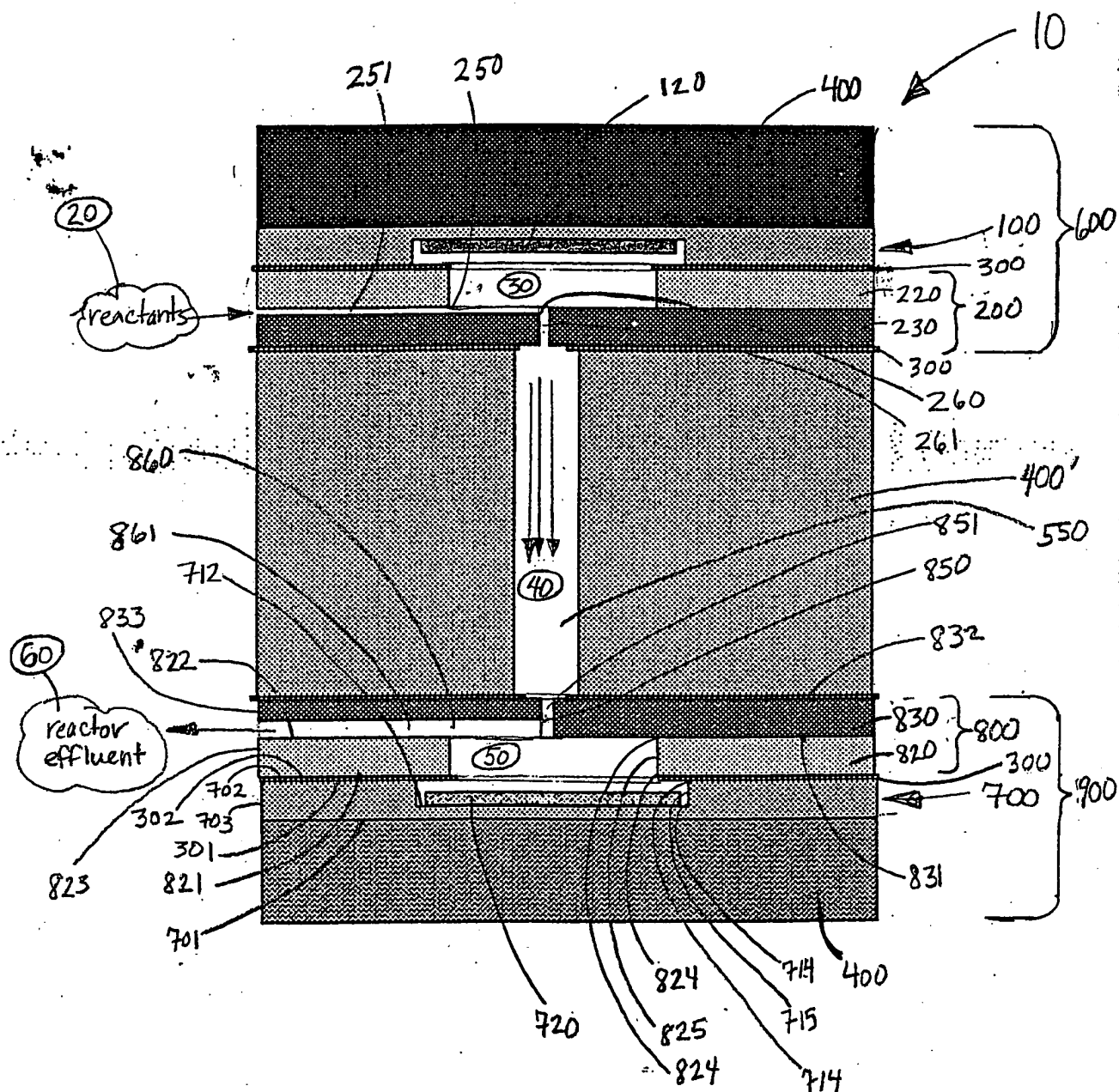


FIG. 18C

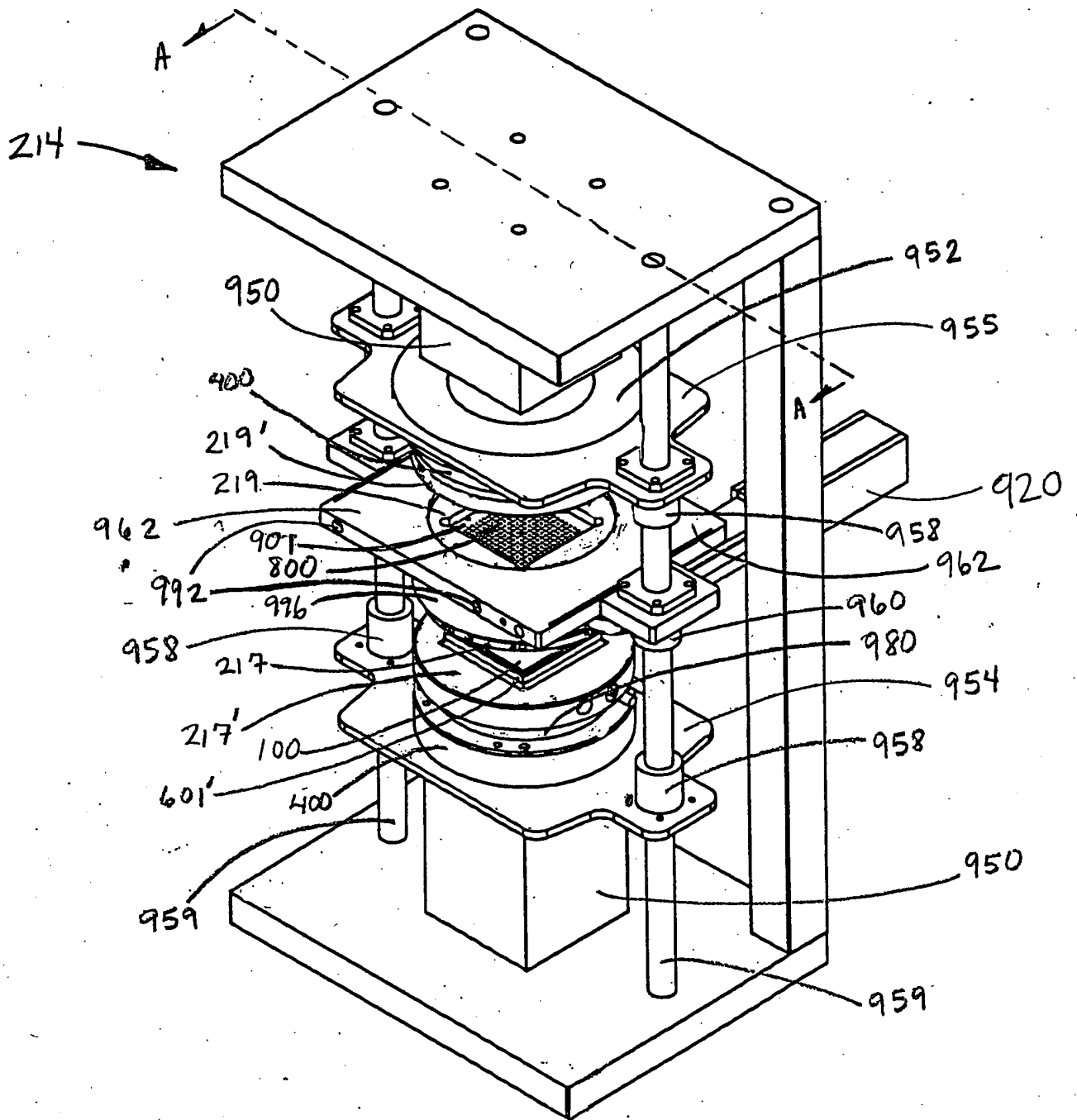


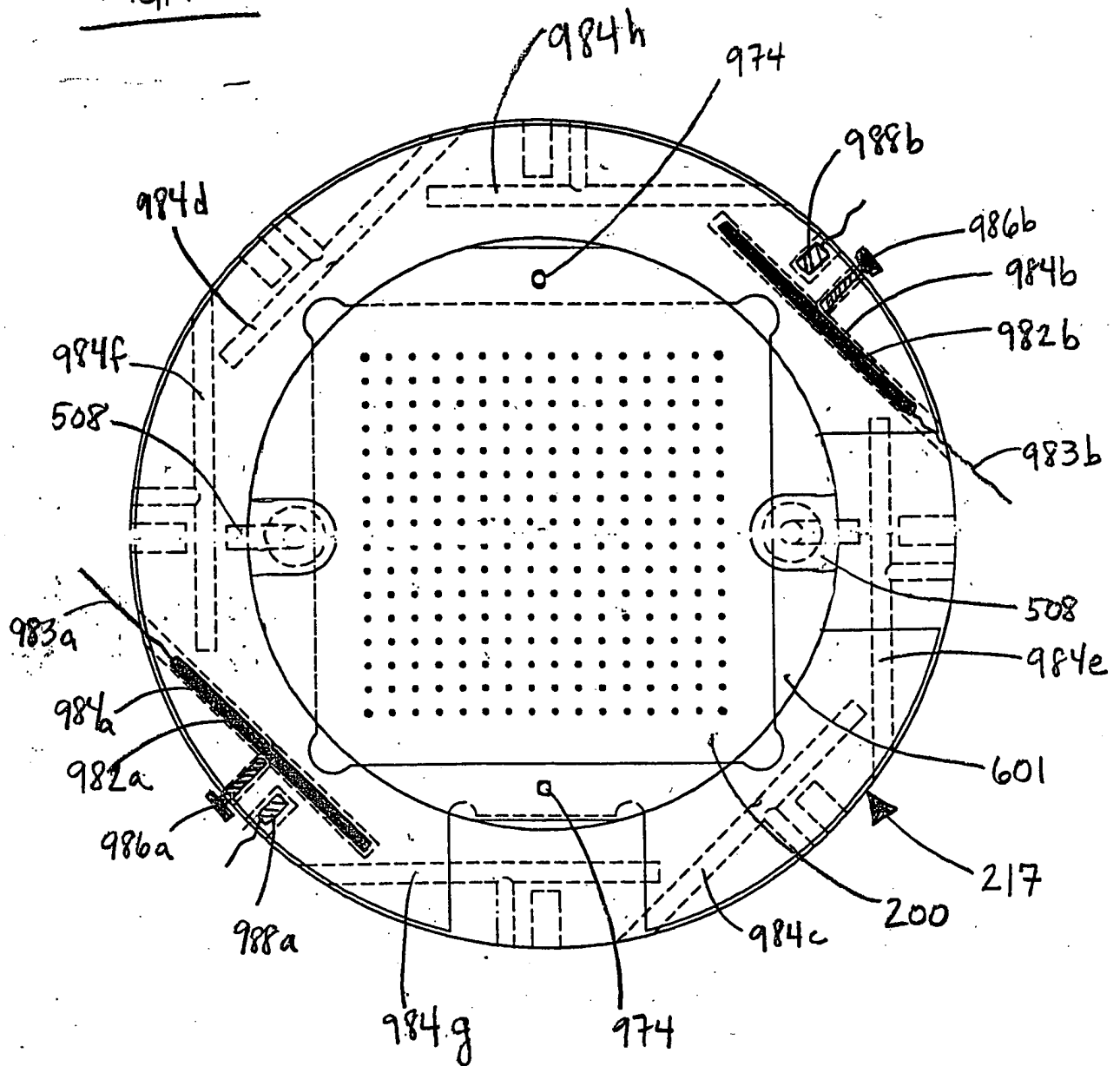
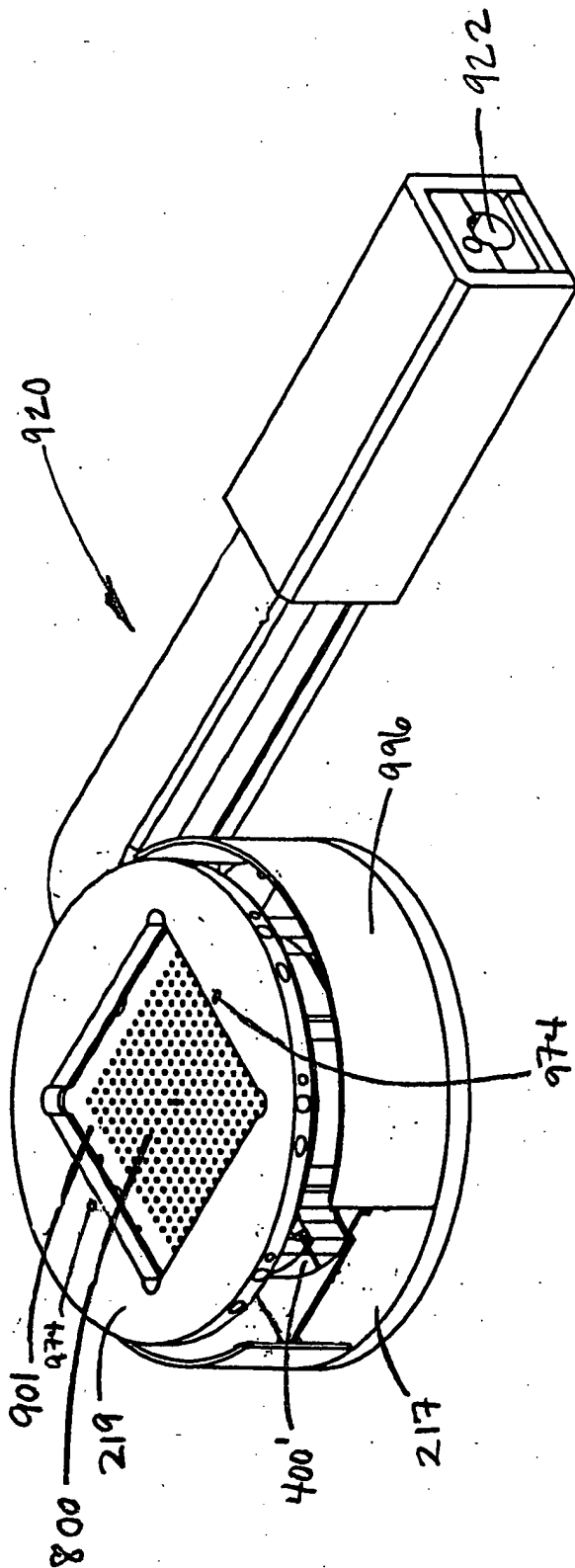
FIG. 18E

Fig. 18F



1. The first step is to identify the problem. This involves understanding the current situation and the goals that need to be achieved.

B

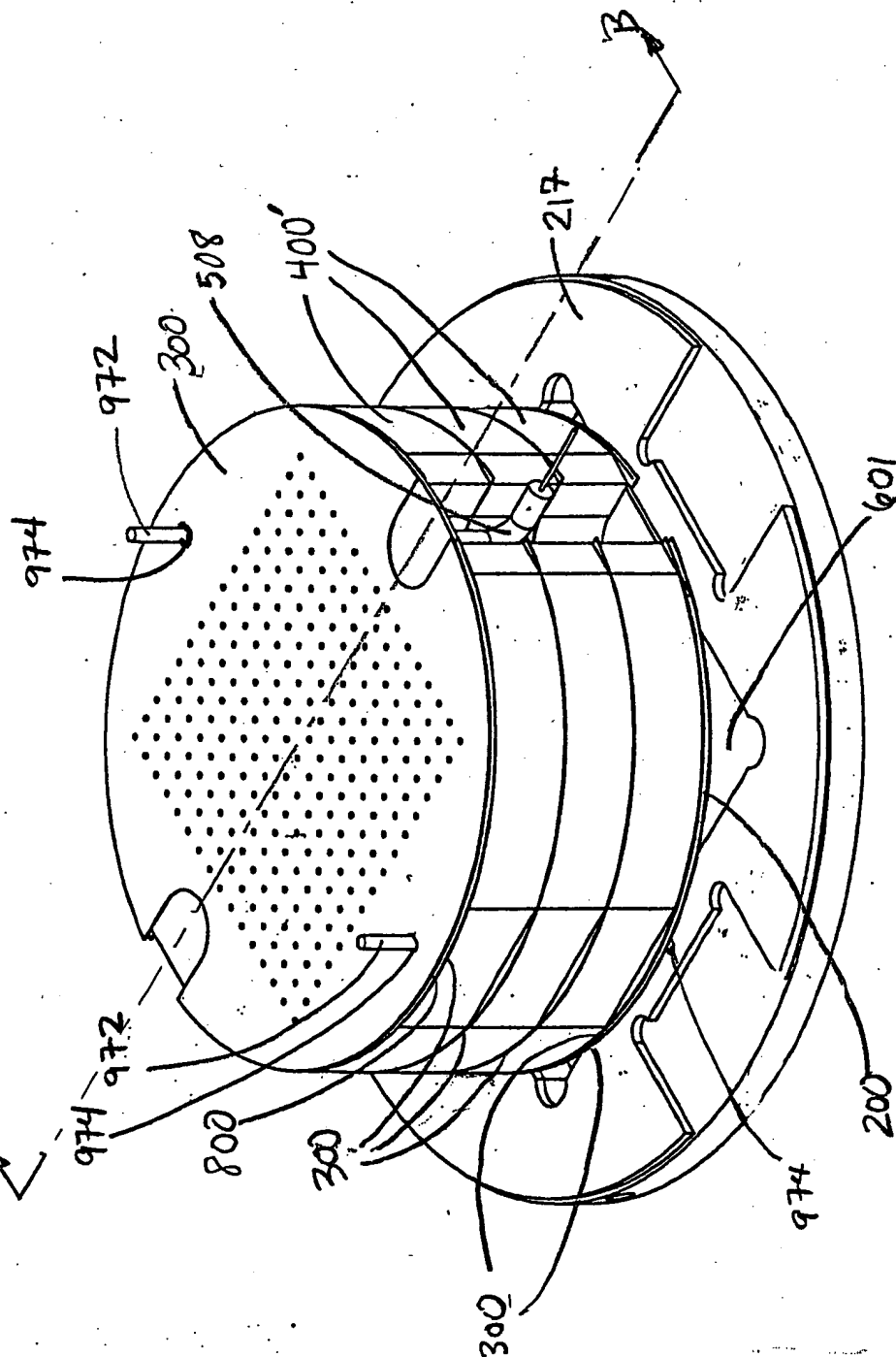
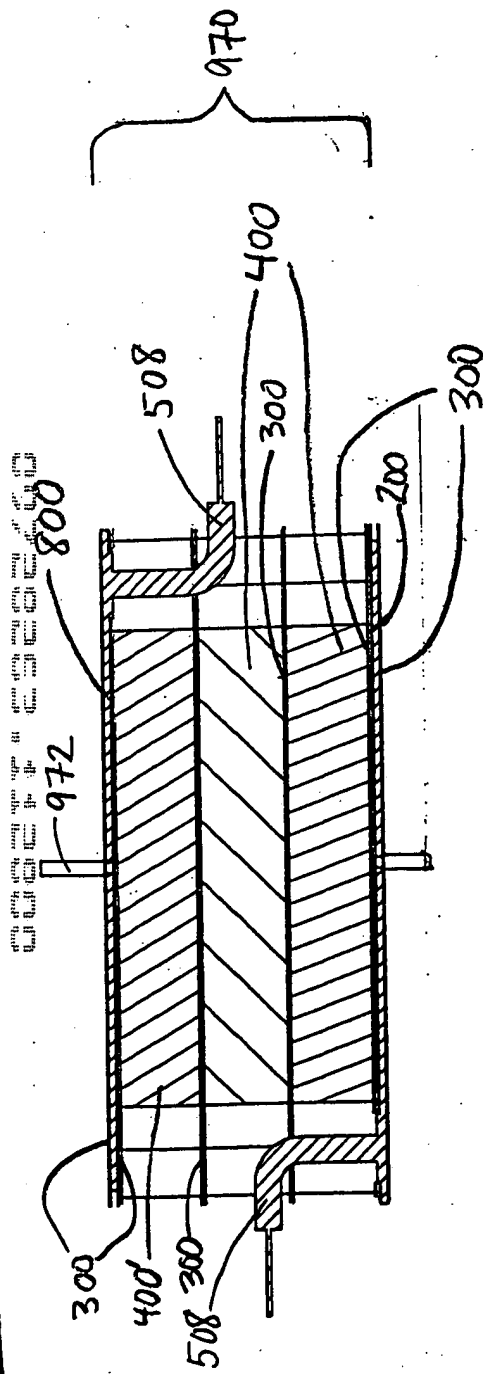


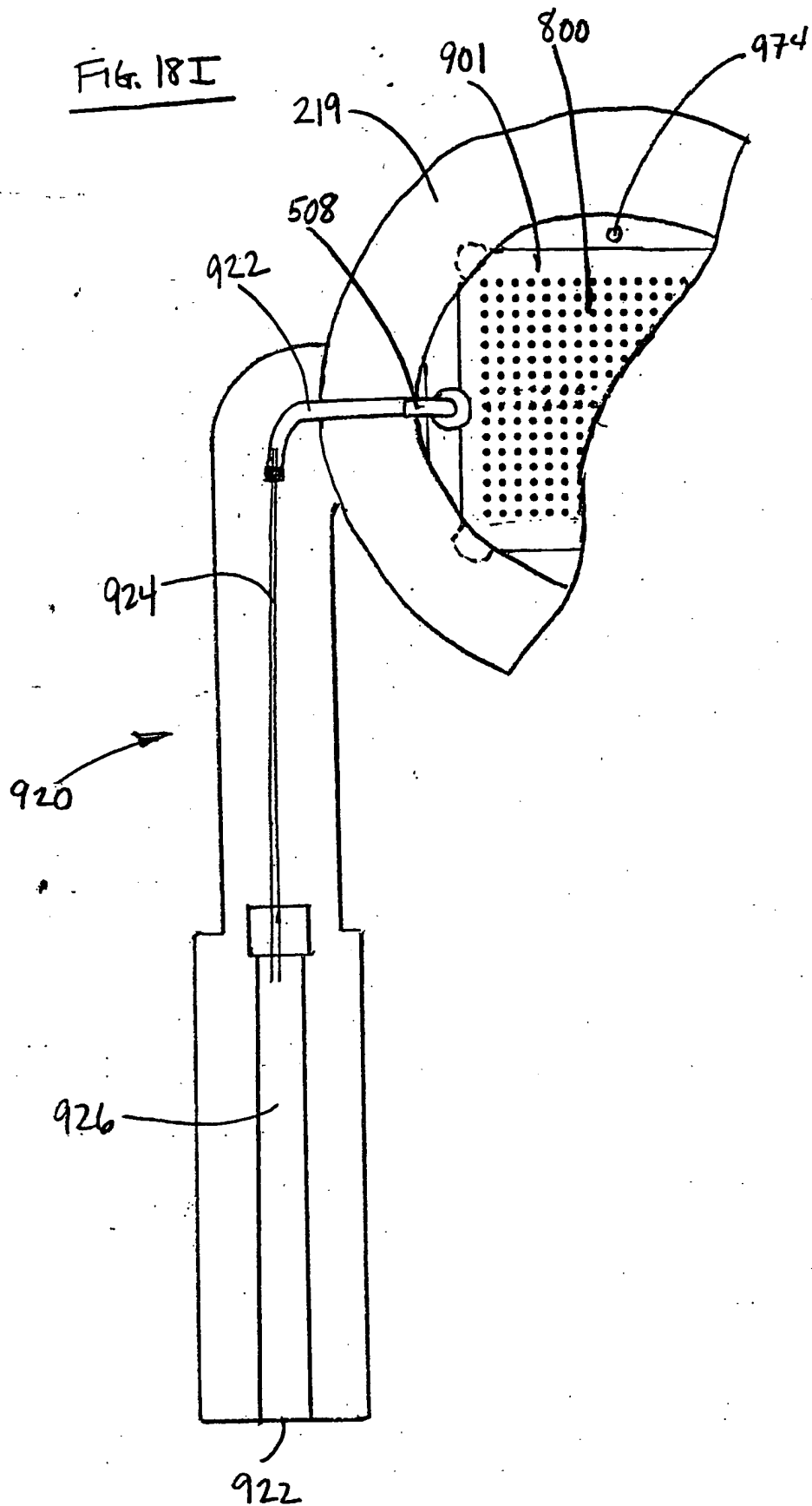
Fig. 18 H



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FIG. 18I



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FIG. 18J

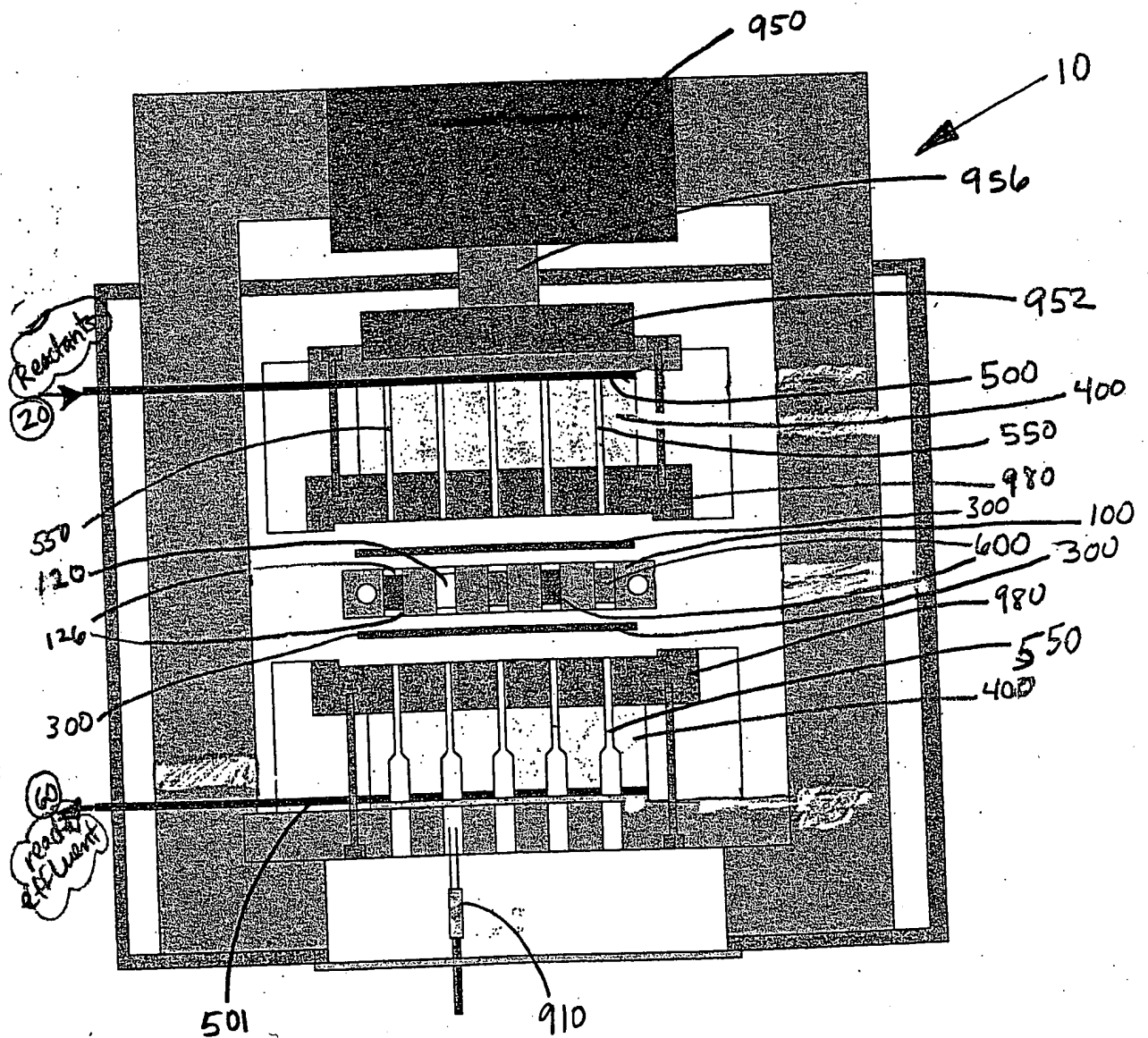


FIG. 19A

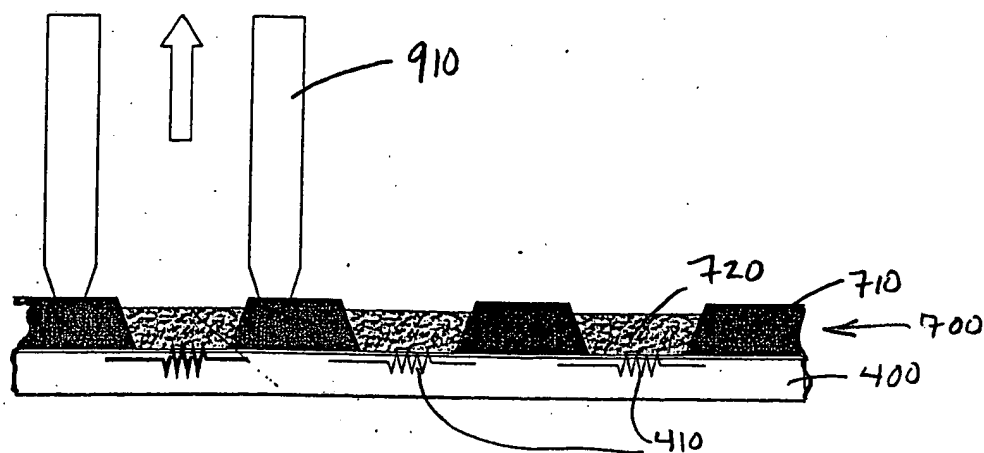


FIG. 19B

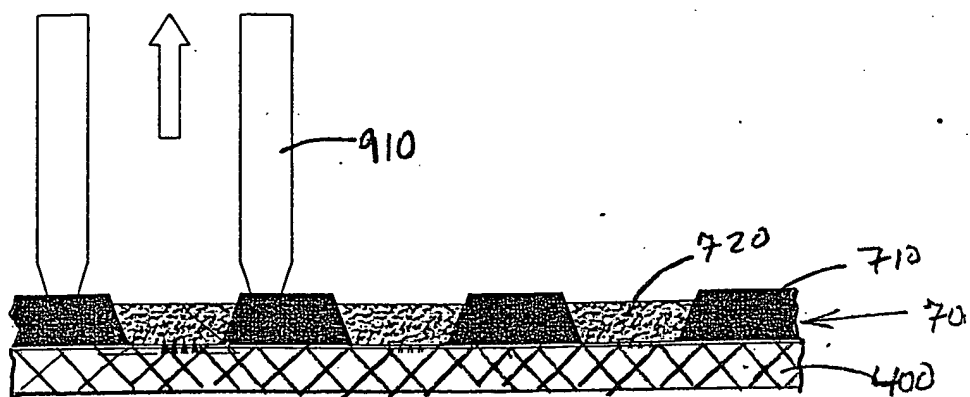
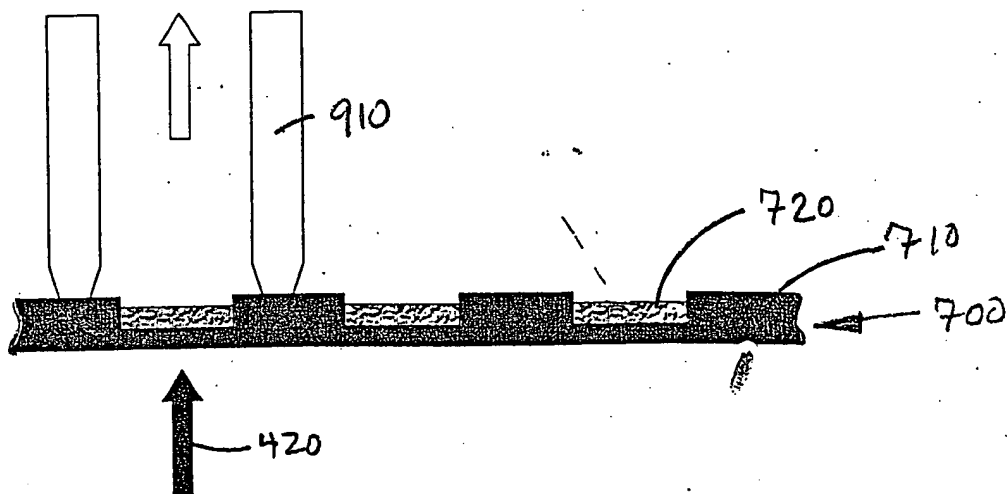
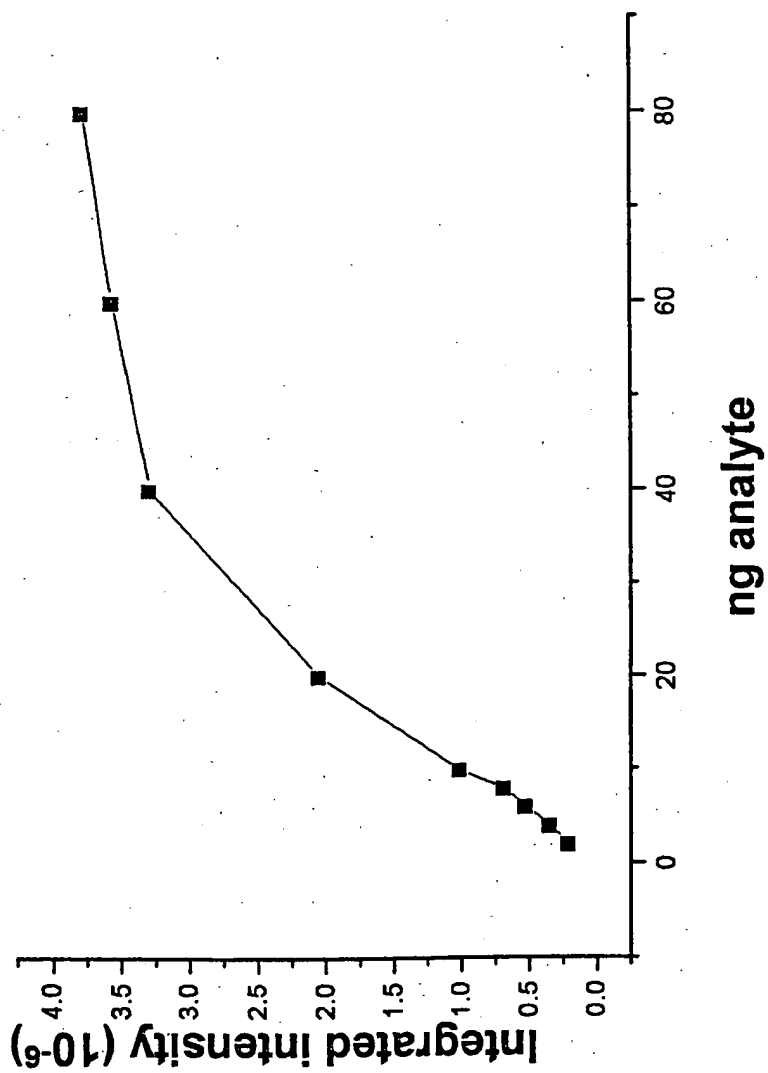


FIG. 19C



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Fig. 20A



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Fig. 20B

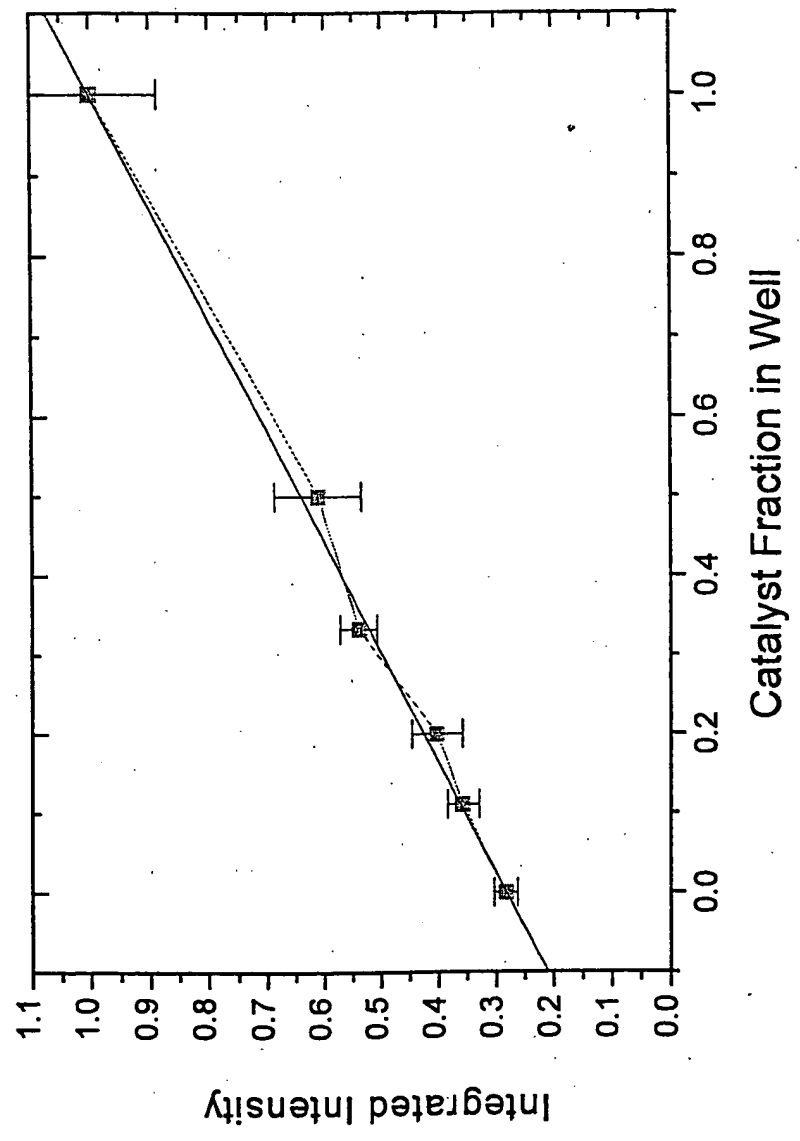
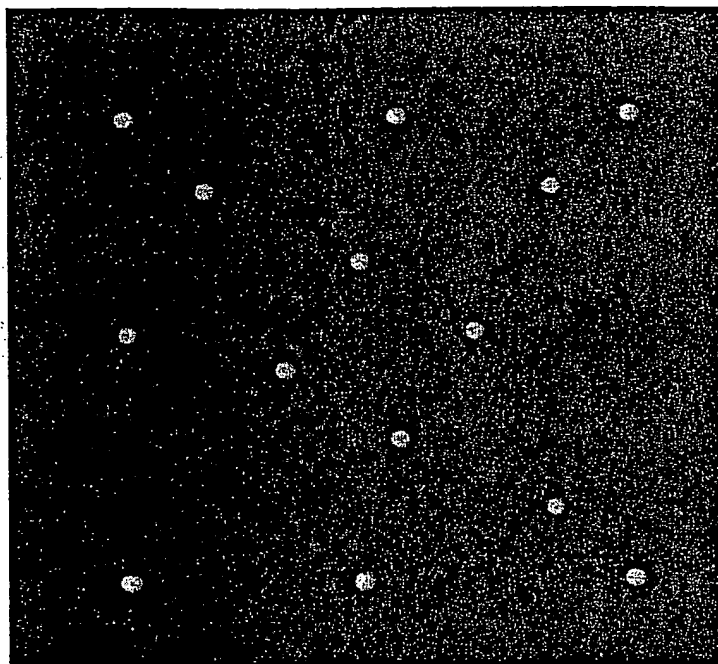
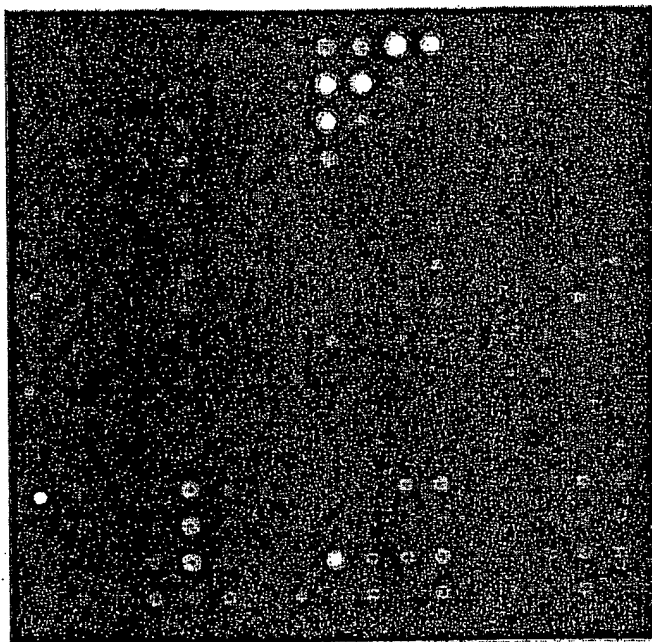
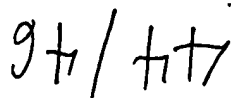


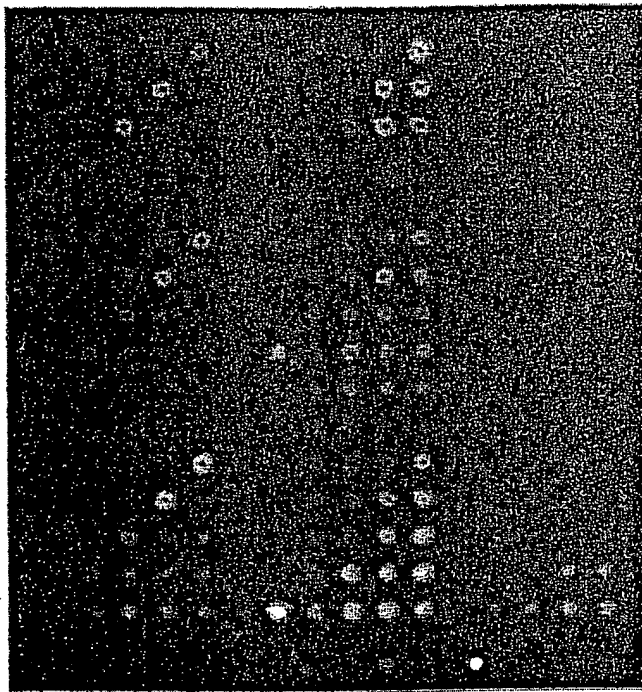
Fig. 20C



9H / 5H

1. The first step is to identify the problem. This involves understanding the symptoms and the context in which the problem is occurring.

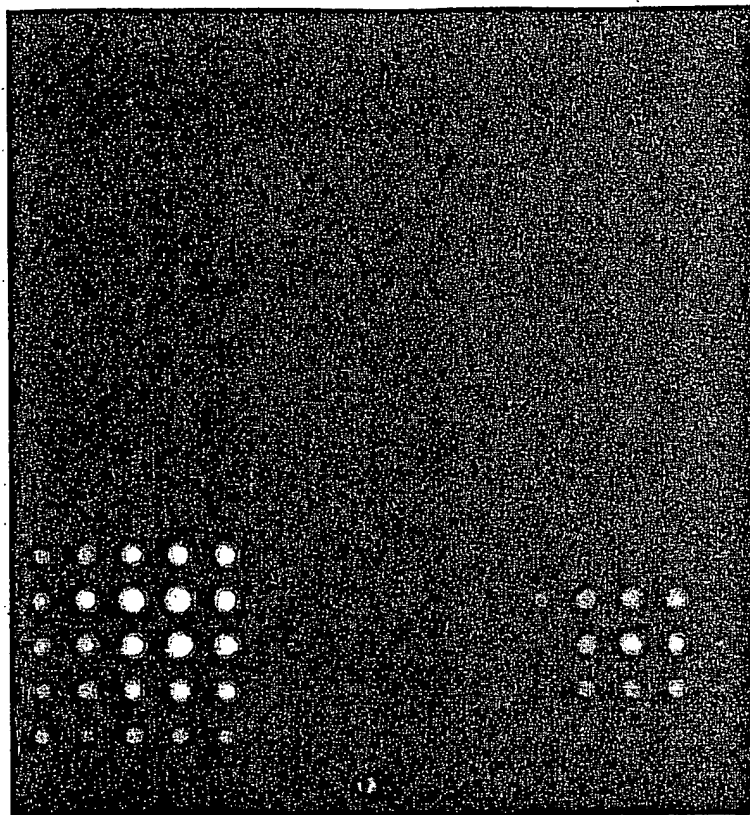


[illegible]

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Fig. 20 F

ZrO_2	SiO_2	Al_2O_3
TiO_2	SiO_2	Al_2O_3
TiO_2	$\alpha\text{-Al}_2\text{O}_3$	$\gamma\text{-Al}_2\text{O}_3$


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